



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-01191	
1b. Type of Well: <input type="checkbox"/> <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A	
2. Name of Operator Kerr-McGee Oil & Gas Onshore, LP		7. If Unit or CA Agreement, Name and No. 891008900A	
3a. Address P.O. Box 173779 Denver, CO 80217-3779		8. Lease Name and Well No. NBU 922-330T	
3b. Phone No. (include area code) 720.929.6226		9. API Well No. 43-047-40186	
4. Location of well (Report location clearly and in accordance with any State requirements. *) At surface 692 FSL 1465 SW SE Lat. 39.987197 Long. -109.440117 At proposed prod. zone N/A 44272824 NAD 27 39.987116 -109.440054		10. Field and Pool, or Exploratory Natural Buttes Field	
11. Sec., T., R., M., or Blk. and Survey or Area Sec 33 T 9S R 22E		12. Cou State Utah	
14. Distance in miles and direction from the nearest town or post office* 25.75 miles northeast of Ouray, Utah		15. Distance from proposed* location to nearest property or lease line, ft. 692'	
16. No. of acres in lease 1041.78		17. Spacing Unit dedicated to this well 40	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20'		19. Proposed Depth 9,000	
20. BLM/ BIA Bond No. on file WYB000291		21. Elevations (Show whether DF, RT, GR, etc.) 5,106' GR	
22. Aproximate date work will start* Upon Approval		23. Esti mat 10 days	
24. Attachments			

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by existing bond on file (see item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Land). SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/ or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/ Typed) Kevin McIntyre
Title Regulatory Analyst	
RECEIVED JUL 02 2008 DIV. OF OIL, GAS & MINING	
Approved By (Signature) 	Name (Printed/ Typed) BRADLEY G. HILL
Title Regulatory Analyst	Office ENVIRONMENTAL MANAGER
07-16-08	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

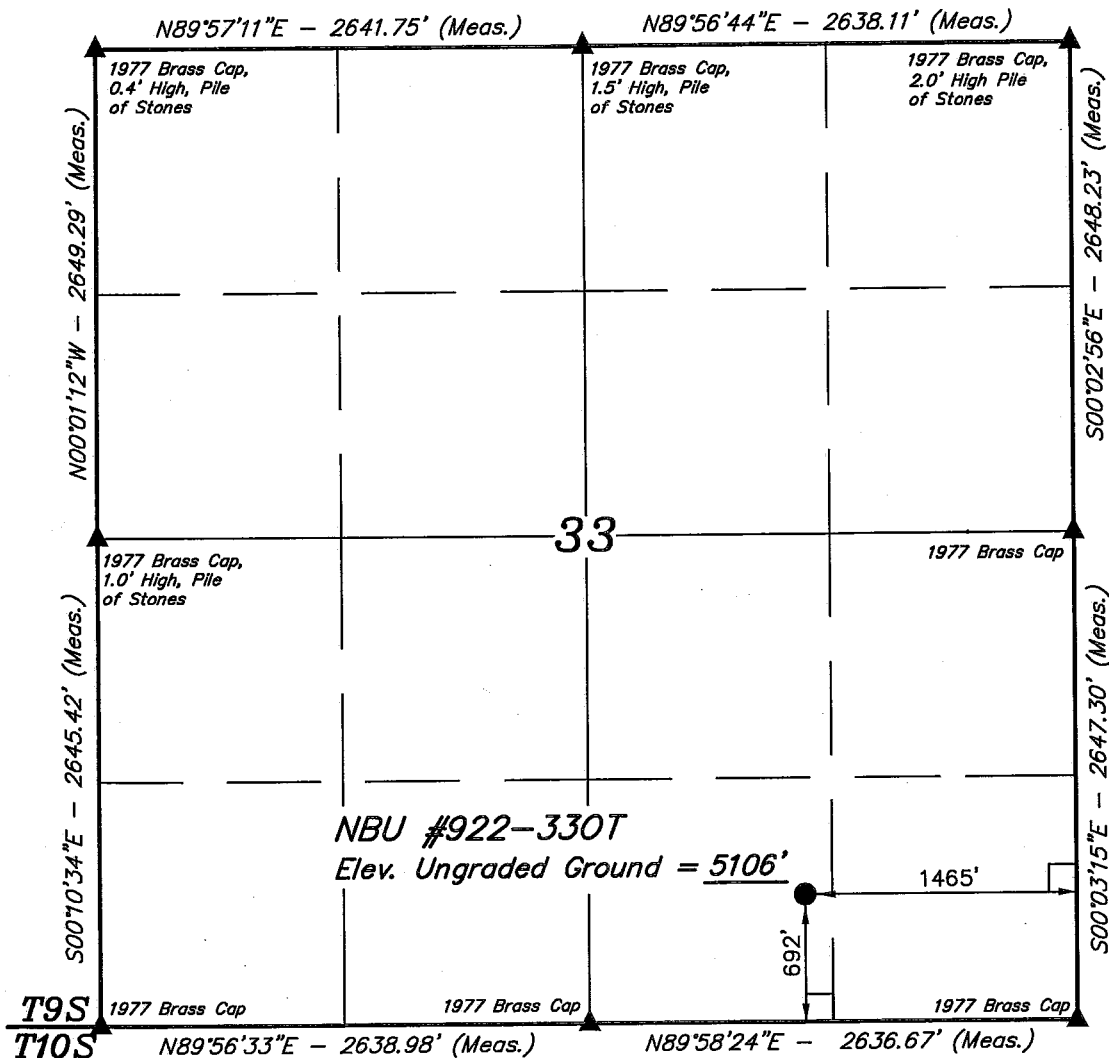
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

Federal Approval of this
Action is Necessary

T9S, R22E, S.L.B.&M.



LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(NAD 83)
 LATITUDE = 39°59'13.79" (39.987164)
 LONGITUDE = 109°26'26.88" (109.440800)
 (NAD 27)
 LATITUDE = 39°59'13.91" (39.987197)
 LONGITUDE = 109°26'24.42" (109.440117)

Kerr-McGee Oil & Gas Onshore LP

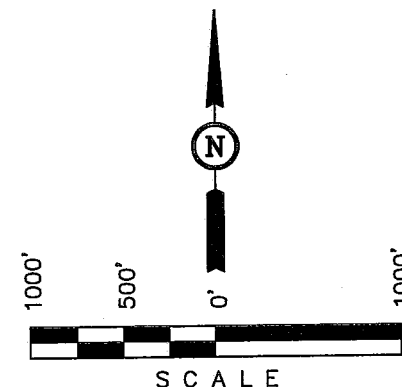
Well location, NBU #922-330T, located as shown in the SW 1/4 SE 1/4 of Section 33, T9S, R22E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE MAP WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
 KAY
 REGISTRATION NO. 161319
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
 85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 05-29-08	DATE DRAWN: 06-09-08
PARTY T.A. S.K. S.L.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE Kerr-McGee Oil & Gas Onshore LP	

**NBU 922-33OT
SWSE Sec. 33, T9S, R22E
UINTAH COUNTY, UTAH
UTU-01191**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1298'
Bird's Nest	1612'
Mahogany	2094'
Wasatch	4475'
Mesaverde	6888'
MVU2	7833'
MVL1	8369'
TD	9000'

2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1298'
	Bird's Nest	1612'
	Mahogany	2094'
Gas	Wasatch	4475'
Gas	Mesaverde	6888'
Gas	MVU2	7833'
Gas	MVL1	8369'
Water	N/A	
Other Minerals	N/A	

3. Pressure Control Equipment (Schematic Attached)

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

4. Proposed Casing & Cementing Program:

Please see the Natural Buttes Unit SOP.

5. Drilling Fluids Program:

Please see the Natural Buttes Unit SOP.

6. Evaluation Program:

Please see the Natural Buttes Unit SOP.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9000' TD, approximately equals 5580 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3600 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

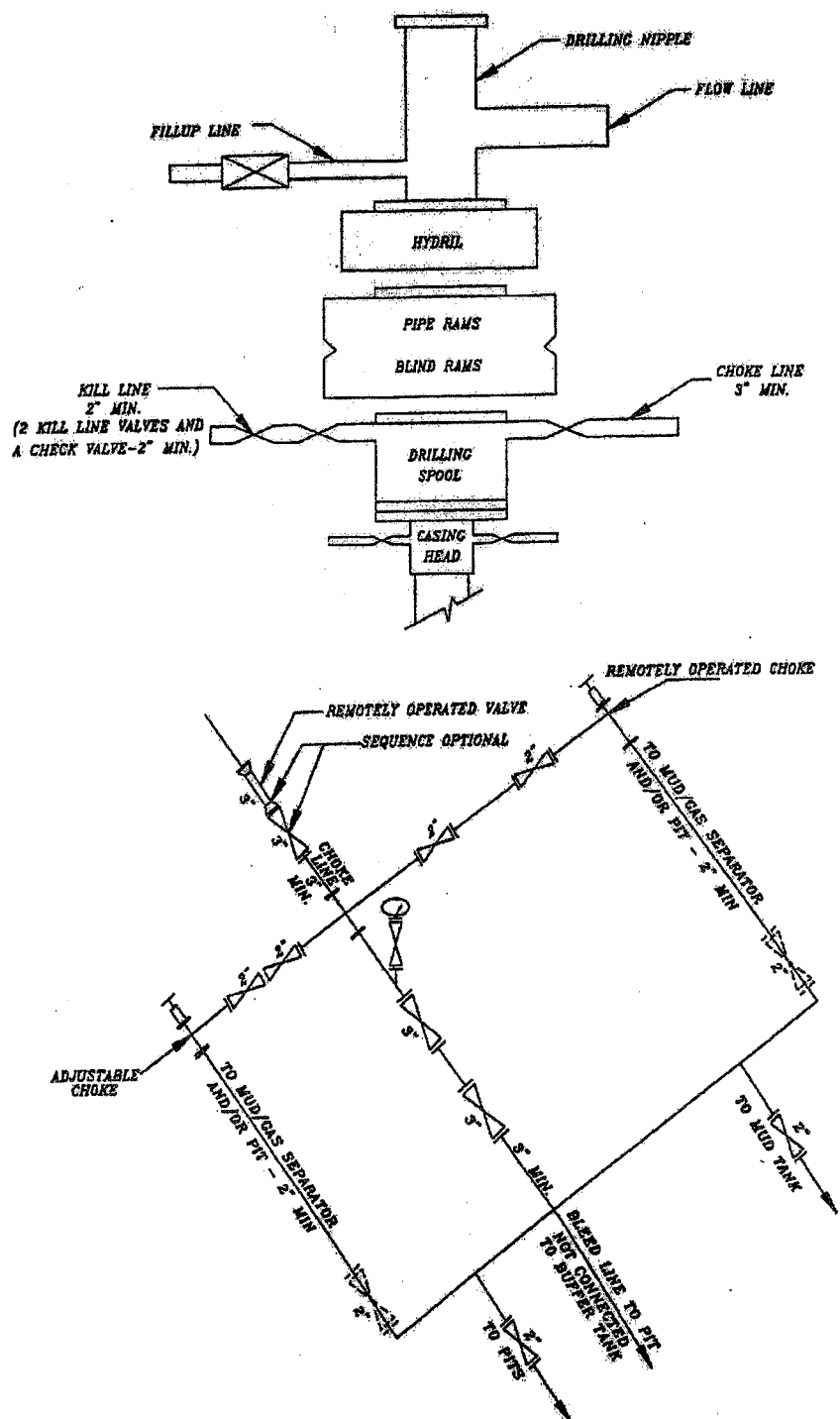
9. **Variances:**

Please see Natural Buttes Unit SOP. Please see Kerr McGee's sundry regarding variance request to Onshore Order #2 regarding Air drilling for surface casing.

10. **Other Information:**

Please see Natural Buttes Unit SOP.

EXHIBIT A



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

NBU 922-330T
SWSE Sec. 33 ,T9S,R22E
UINTAH COUNTY, UTAH
UTU-01191

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. Planned Access Roads:

No new access road is planned, as this is a twin location. Refer to Topo Map B.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

No new pipeline, as we will be utilizing the existing NBU #327 pipeline. No TOPO D attached.

Please see the Natural Buttes Unit SOP.

Variances to Best Management Practices (BMPs) Requested:

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

Interim Surface Reclamation Plan:

This exception is requested due to the current twin and multi-well program. If determined that this well will not be a candidate for either twinning &/or multi-well the operator shall spread the topsoil pile on the location up to the rig anchor points. The location will be reshaped to the

original contour to the extent possible. The operator will reseed the area using the BLM recommended seed mixture and reclamation methods.

5. **Location and Type of Water Supply:**

Please see the Natural Buttes SOP.

6. **Source of Construction Materials:**

Please see the Natural Buttes SOP.

7. **Methods of Handling Waste Materials:**

Please see the Natural Buttes SOP.

A plastic reinforced liner is to be used as discussed during on-site inspection. It will be a minimum of 20 mil thick and felt, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E, Pipeline Facility Sec. 36, T9S, R20E, Goat Pasture Evaporation Pond SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond Sec. 2, T10S, R23E (*Request is in lieu of filing Form 3160-5, after initial production*).

8. **Ancillary Facilities:**

Please see the Natural Buttes SOP.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. Plans for Reclamation of the Surface:

Please see the Natural Buttes SOP.

upon reclamation of the pit the following seed mixture will be used. A total of 12 lbs/acre will be used if the seeds are drilled (24 lbs/acre if the seeds are broadcast). The per acre requirements for *drilled* seed are:

Crested Wheatgrass 12 lbs.

Operator shall call the BLM for the seed mixture when final reclamation occurs.

11. Surface/Mineral Ownership:

The well pad, access road, pipeline and mineral ownership are listed below:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

12. Stipulations**Wildlife Stipulations:**

- Antelope Stipulations:
No construction from May 15 through June 20.

Critical Soils Stipulations:

No construction when wet.

13. Other Information:

A Class III archaeological survey and a paleontological survey have been performed and will be submitted.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

14. Lessee's or Operator's Representative & Certification:

Kevin McIntyre
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779
(720) 929-6226

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7018

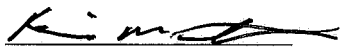
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by BLM Nationwide Bond #WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.


Kevin McIntyre

6/30/2008
Date



KERR-McGEE OIL & GAS ONSHORE LP **DRILLING PROGRAM**

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE June 30, 2008
WELL NAME NBU 922-33OT TD 9,000' MD/TVD
FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 5,106' GL KB 5,121'
SURFACE LOCATION SWSE 692' FSL & 1465' FEL, SEC. 33, T9S, R22E BHL Straight Hole
Latitude: 39.987197 Longitude: -109.440117
OBJECTIVE ZONE(S) Wasatch/Mesaverde
ADDITIONAL INFO Regulatory Agencies: BLM (SURF & MINERALS), UDOGM, Tri-County Health Dept.

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	9-5/8", 36#, J-55, LTC	Air mist
Catch water sample, if possible, from 0 to 4,475' Green River @ 1,298' Top of Birds Nest Water @ 1612' Mahogany @ 2,094' Preset f/ GL @ 2,150' MD					
Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
Mud logging program TBD Open hole logging program f/ TD - surf csg					
	Wasatch @	4,475'			
	Mverde @	6,888'			
	MVU2 @	7,833'			
	MVL1 @	8,369'			
			7-7/8"	4-1/2", 11.6#, I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-10.0 ppg
					Max anticipated Mud required 11.7 ppg
	TD @	9,000'			



CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3520	2020	453000
SURFACE	9-5/8"	0 to 2150	36.00	J-55	LTC	1.01	2.01	7.45
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 9000	11.60	I-80	LTC	2.23	1.16	2.21

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)
- 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
- (Burst Assumptions: TD = 11.7 ppg) .22 psi/ft = gradient for partially evac wellbore
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
- MASP 3600 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ .25 pps flocele				
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt	50		15.60	1.18
			+ 2% CaCl + .25 pps flocele				
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite	170	35%	11.00	3.82
			+ .25 pps Flocele + 3% salt BWOC				
	TAIL	500	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ .25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,970'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	430	60%	11.00	3.38
	TAIL	5,030'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	1410	60%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Brad Laney

DATE:

DRILLING SUPERINTENDENT:

Randy Bayne

NBU 922-33OT.xls

DATE:

Kerr-McGee Oil & Gas Onshore LP
NBU #922-33OT
SECTION 33, T9S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 4.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 2.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 2.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.35 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 56.75 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #922-330T

LOCATED IN UINTAH COUNTY, UTAH
SECTION 33, T9S, R22E, S.L.B.&M.

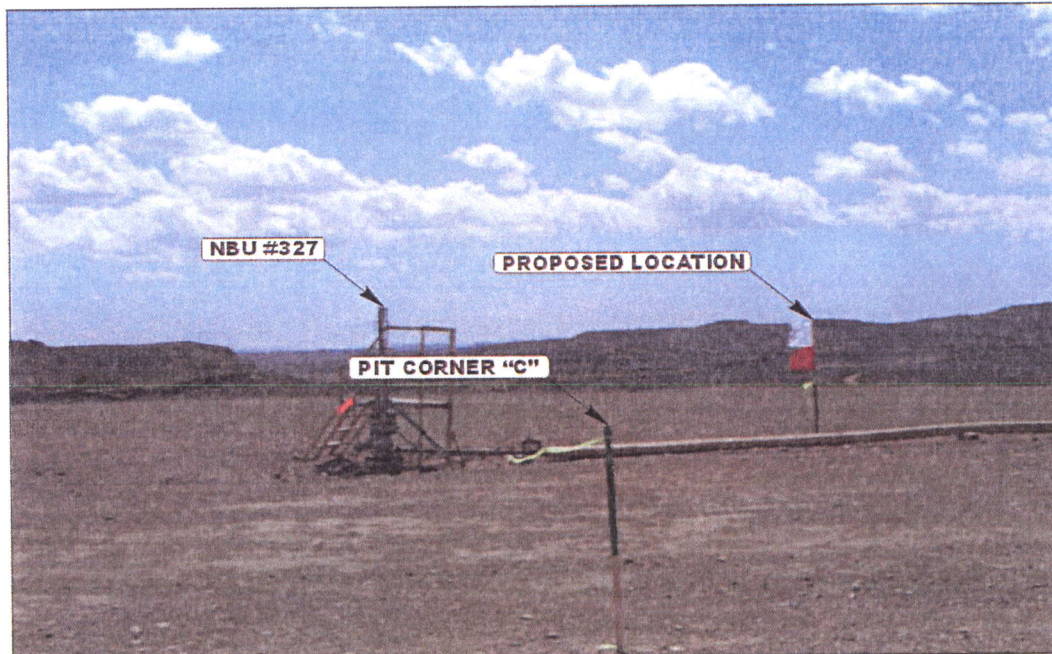


PHOTO: VIEW FROM PIT CORNER "C" TO LOCATION

CAMERA ANGLE: SOUTHEASTERLY

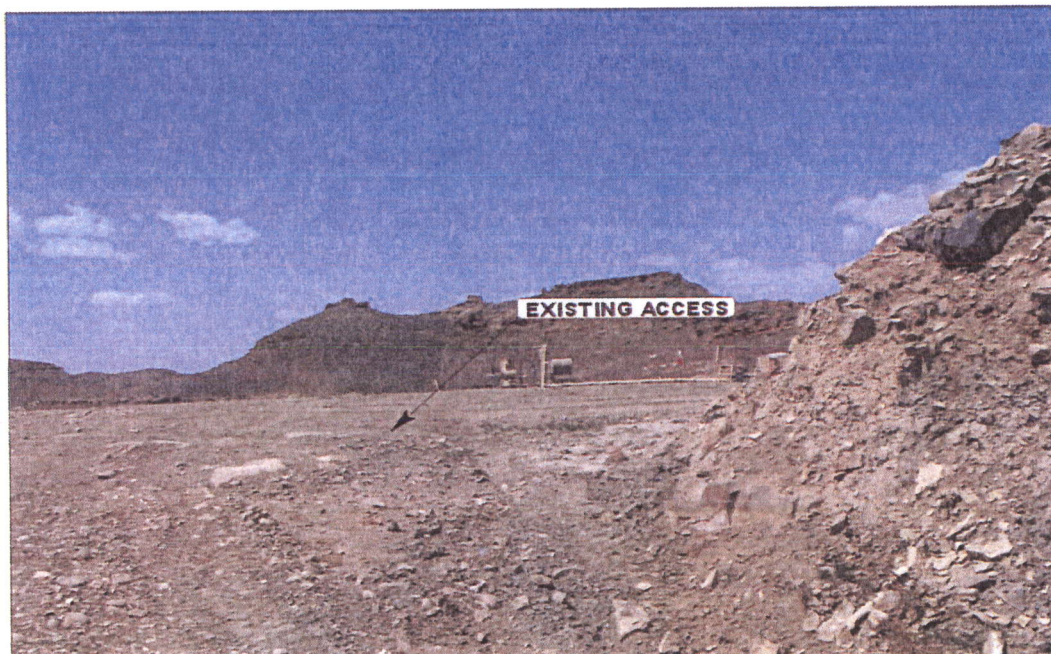


PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: SOUTHWESTERLY



UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

- Since 1964 -

PIPELINE PHOTOS

06 12 08
MONTH DAY YEAR

PHOTO

TAKEN BY: P.J.

DRAWN BY: J.C.

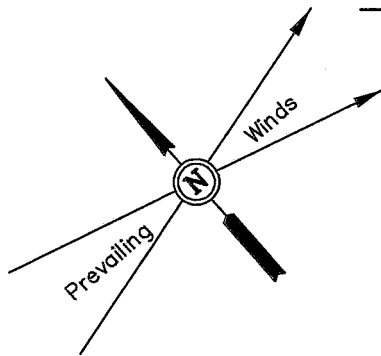
REVISED: 00-00-00

Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

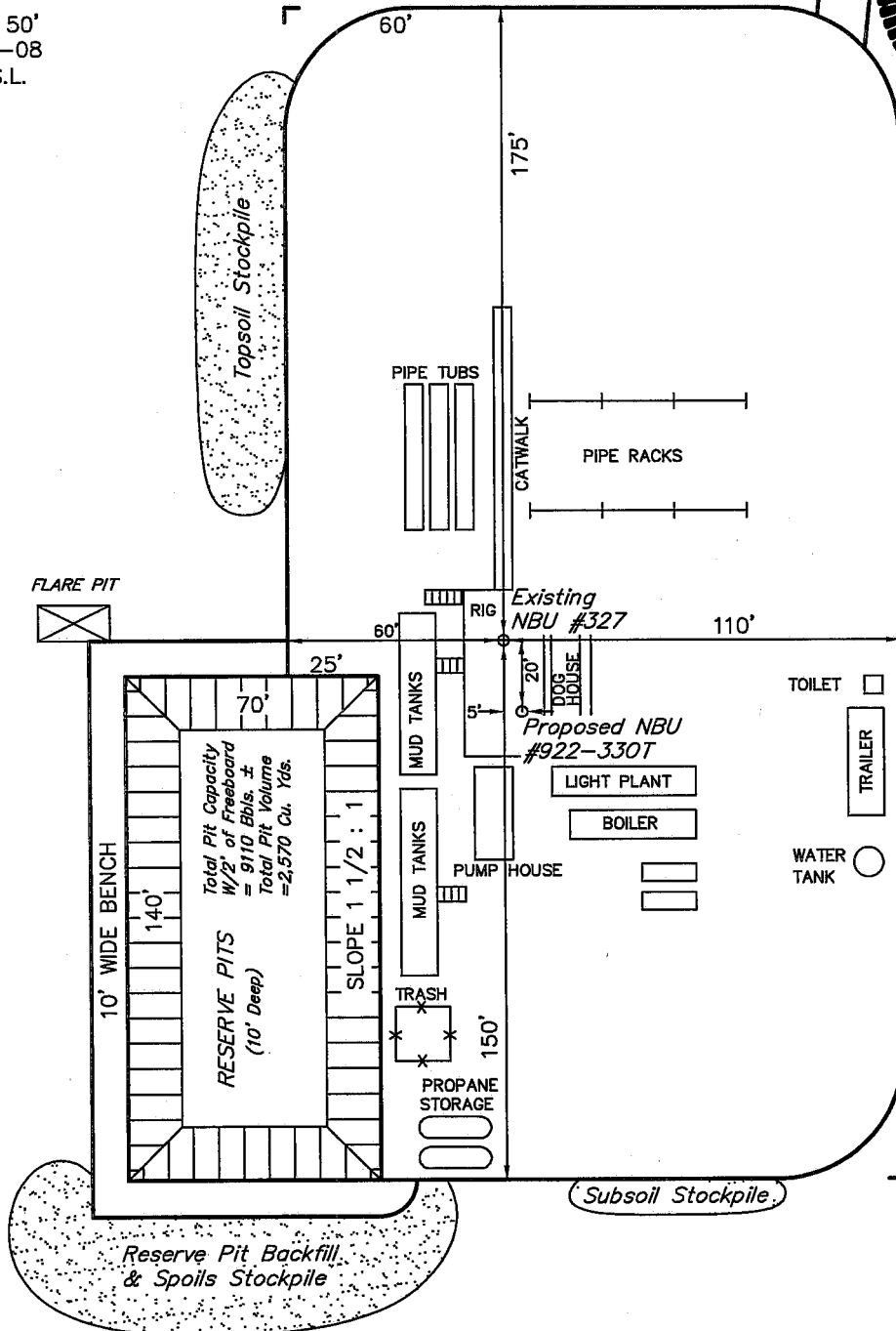
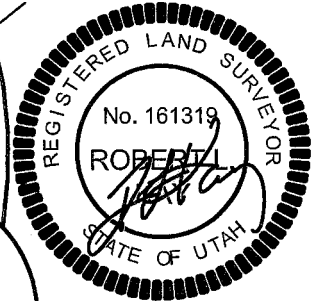
LOCATION LAYOUT FOR

NBU #922-330T
SECTION 33, T9S, R22E, S.L.B.&M.
692' FSL 1465' FEL



SCALE: 1" = 50'
DATE: 06-09-08
Drawn By: S.L.

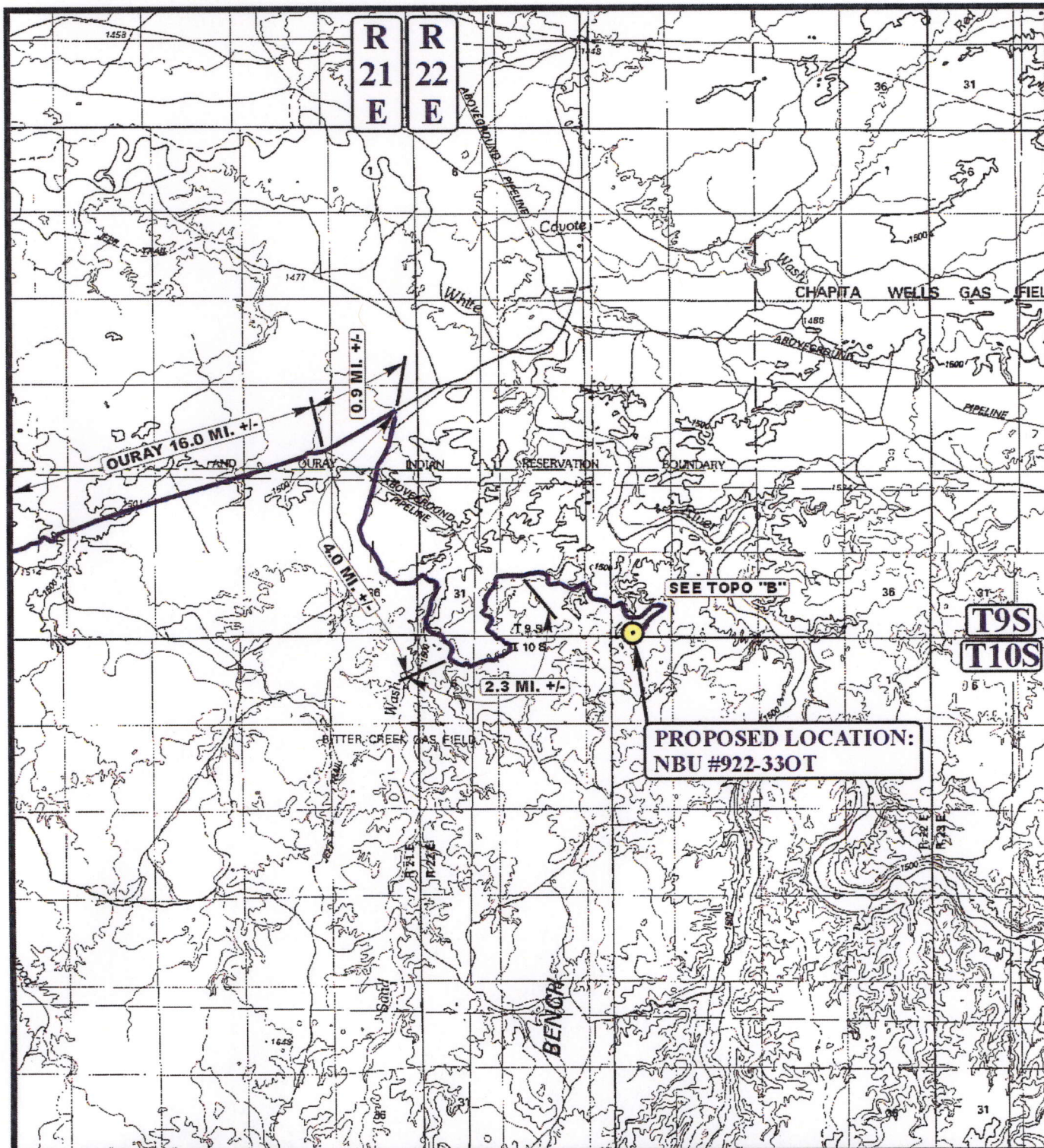
Existing Access Road



NOTES:

FINISHED GRADE ELEV. AT LOC. STAKE = 5105.7'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017



LEGEND:

● PROPOSED LOCATION

Kerr-McGee Oil & Gas Onshore LP

NBU #922-330T

**SECTION 33, T9S, R22E, S.L.B.&M.
692' FSL 1465' FEL**



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



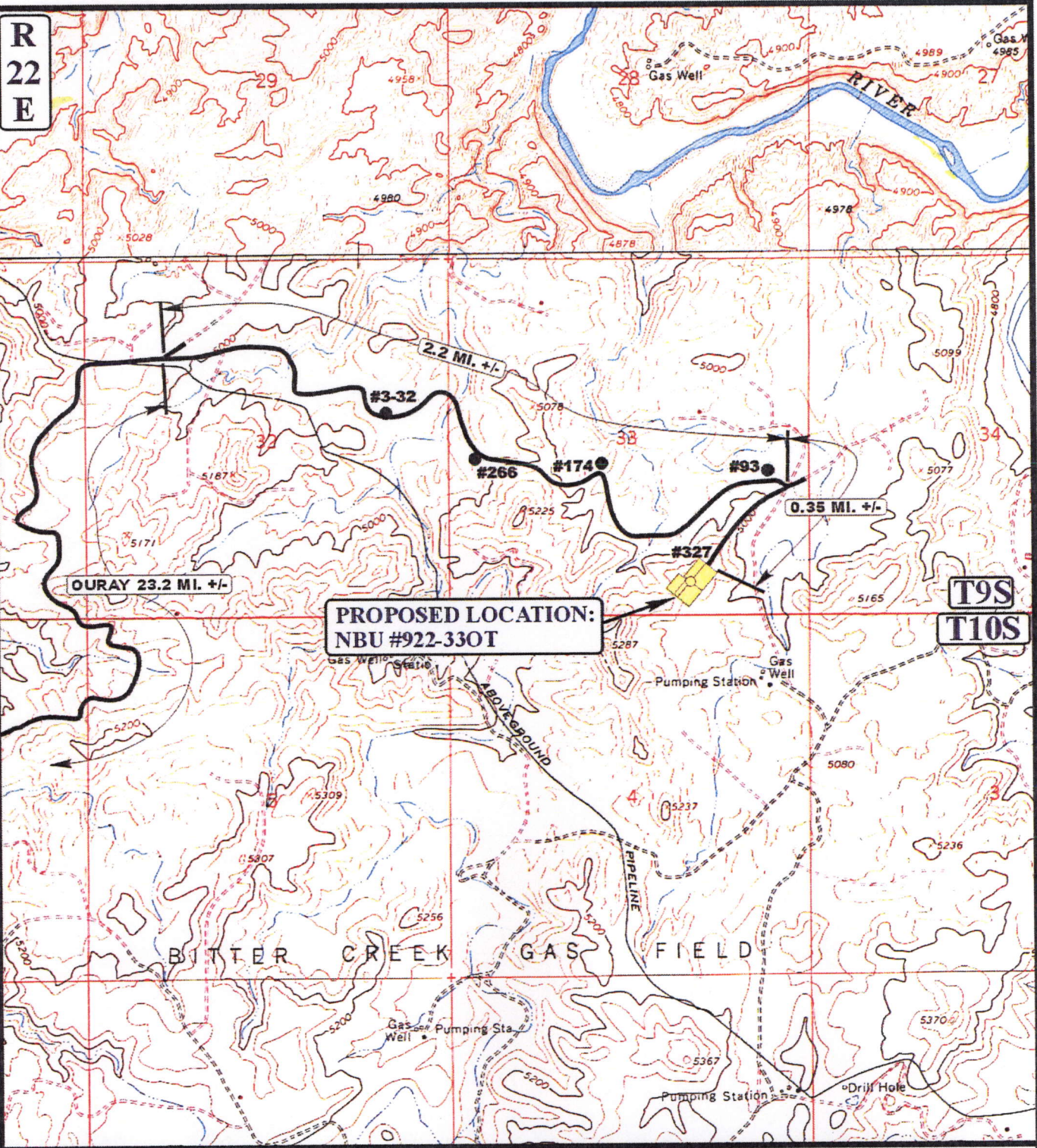
**TOPOGRAPHIC
MAP**

06 12 08
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: J.C. REVISED: 00-00-00



R
22
E



PROPOSED LOCATION:
NBU #922-330T

T9S
T10S

LEGEND:

- EXISTING ROAD
- - - - - PROPOSED ACCESS ROAD

N

Kerr-McGee Oil & Gas Onshore LP

NBU #922-330T

SECTION 33, T9S, R22E, S.L.B.&M.

692' FSL 1465' FEL

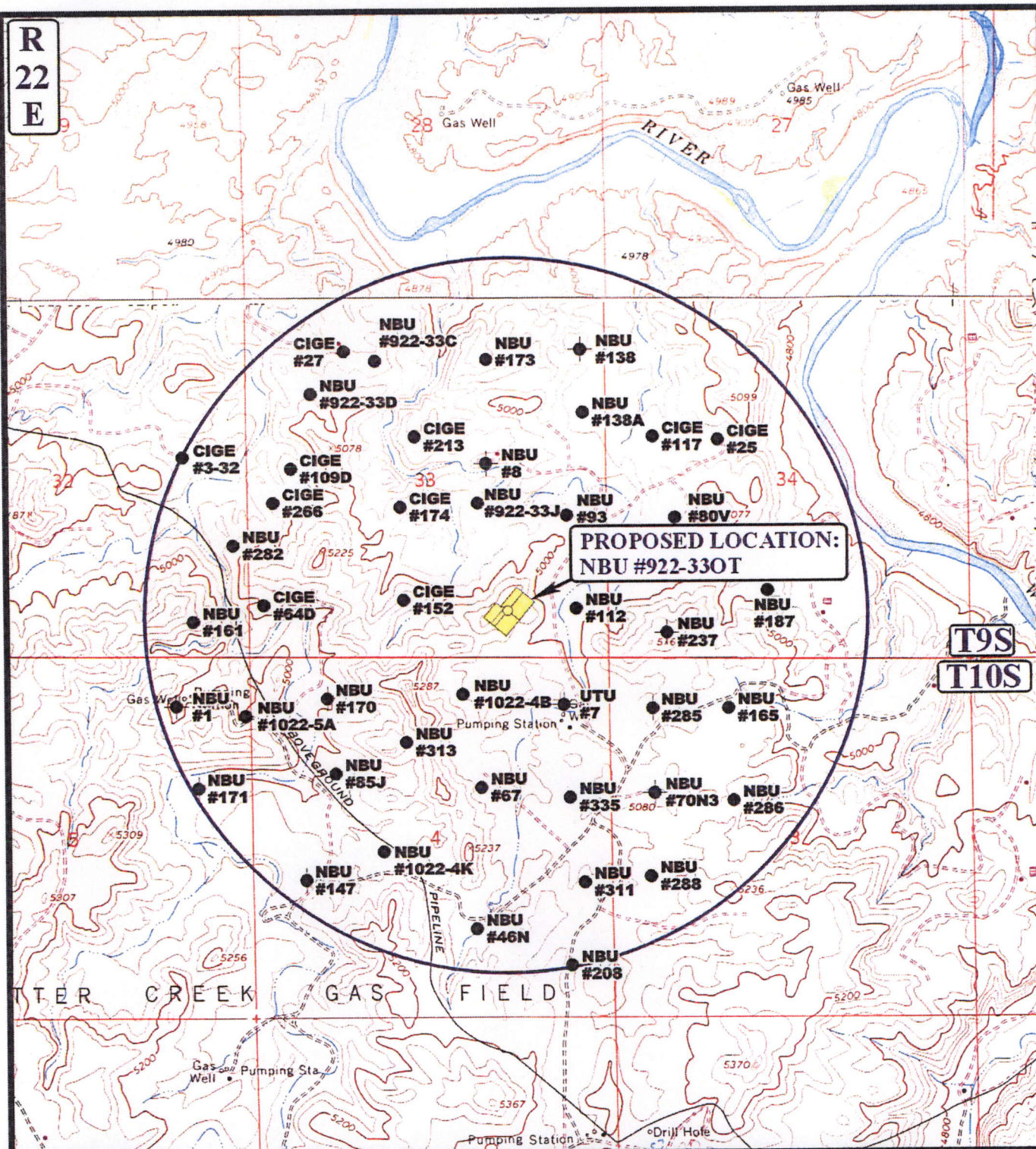


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC 06 12 08
MAP MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: J.C. REVISED: 00-00-00

B
TOPO

**R
22
E**



LEGEND:

- | | |
|-------------------|-------------------------|
| ○ DISPOSAL WELLS | ○ WATER WELLS |
| ● PRODUCING WELLS | ● ABANDONED WELLS |
| ● SHUT IN WELLS | ● TEMPORARILY ABANDONED |

N

Kerr-McGee Oil & Gas Onshore LP

NBU #922-330T

SECTION 33, T9S, R22E, S.L.B.&M.

692' FSL 1465' FEL



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

06 12 08
MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: J.C.

REVISED: 00-00-00

**C
TOPO**

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 07/02/2008

API NO. ASSIGNED: 43-047-40186

WELL NAME: NBU 922-330T

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

CONTACT: KEVIN MCINTYRE

PHONE NUMBER: 720-929-6226

PROPOSED LOCATION:

SWSE 33 090S 220E

SURFACE: 0692 FSL 1465 FEL

BOTTOM: 0692 FSL 1465 FEL

COUNTY: UINTAH

LATITUDE: 39.98712 LONGITUDE: -109.4401

UTM SURF EASTINGS: 633188 NORTHINGS: 4427282

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-01191

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WYB000291)
☒ Potash (Y/N)
☒ Oil Shale 190-5 (B) or 190-3 or 190-13
☒ Water Permit
(No. 43-8496)
☒ RDCC Review (Y/N)
(Date:)
☒ Fee Surf Agreement (Y/N)
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

☐ R649-2-3.
Unit: NATURAL BUTTES
☐ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
☐ R649-3-3. Exception
☒ Drilling Unit
Board Cause No: 173-14
Eff Date: 12-2-1994
Siting: 460' to 1/2 mile from Uncomm. Tract
☐ R649-3-11. Directional Drill

COMMENTS:

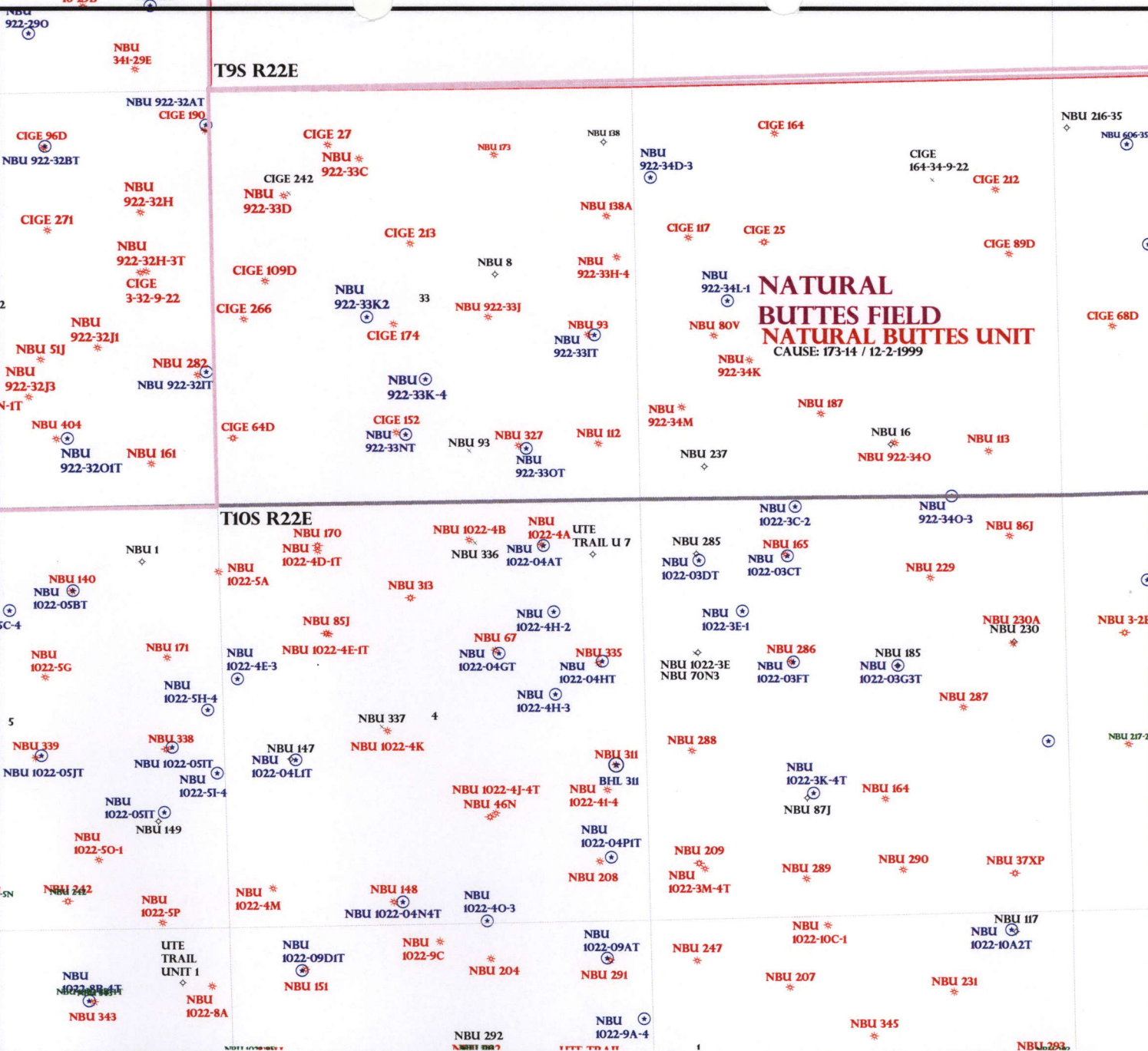
STIPULATIONS:

1- FEDERAL APPROVAL
2- OIL SHALE

T9S R22E

T10S R22E

NATURAL BUTTES FIELD **NATURAL BUTTES UNIT** CAUSE: 173-14 / 12-2-1999



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 33 T.9S R. 22E

FIELD: NATURAL BUTTES (630)

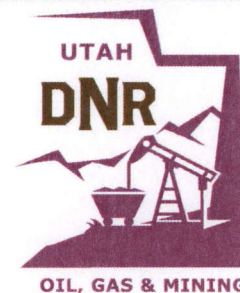
COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

- Field Status**
- ABANDONED
 - ACTIVE
 - COMBINED
 - INACTIVE
 - PROPOSED
 - STORAGE
 - TERMINATED

- Unit Status**
- EXPLORATORY
 - GAS STORAGE
 - NF PP OIL
 - NF SECONDARY
 - PENDING
 - PI OIL
 - PP GAS
 - PP GEOTHERML
 - PP OIL
 - SECONDARY
 - TERMINATED

- Wells Status**
- GAS INJECTION
 - GAS STORAGE
 - LOCATION ABANDONED
 - NEW LOCATION
 - PLUGGED & ABANDONED
 - PRODUCING GAS
 - PRODUCING OIL
 - SHUT-IN GAS
 - SHUT-IN OIL
 - TEMP. ABANDONED
 - TEST WELL
 - WATER INJECTION
 - WATER SUPPLY
 - WATER DISPOSAL
 - DRILLING



PREPARED BY: DIANA MASON
 DATE: 14-JULY-2008

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

July 15, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ Wasatch/MesaVerde)

43-047-40184	NBU 921-30FT	Sec 30 T09S R21E 1585 FNL 2614 FWL
43-047-40185	NBU 921-31BT	Sec 31 T09S R21E 0670 FNL 2008 FEL
43-047-40170	NBU 921-27KT	Sec 27 T09S R21E 1527 FSL 1821 FWL
43-047-40171	NBU 921-27MT	Sec 27 T09S R21E 0634 FSL 0931 FWL
43-047-40172	NBU 921-27OT	Sec 27 T09S R21E 0646 FSL 2211 FEL
43-047-40173	NBU 921-27HT	Sec 27 T09S R21E 2025 FNL 0623 FEL
43-047-40174	NBU 921-27LT	Sec 27 T09S R21E 1954 FSL 0641 FWL
43-047-40175	NBU 921-33K	Sec 33 T09S R21E 2066 FSL 1926 FWL
43-047-40227	NBU 921-27C2D	Sec 27 T09S R21E 0650 FNL 1730 FWL
43-047-40203	NBU 921-27D2DS	Sec 27 T09S R21E 0660 FNL 1713 FWL
	BHL	Sec 27 T09S R21E 0395 FNL 0350 FWL
43-047-40202	NBU 921-27D2AS	Sec 27 T09S R21E 0640 FNL 1747 FWL
	BHL	Sec 27 T09S R21E 0050 FNL 0350 FWL
43-047-40201	NBU 921-27C2AS	Sec 27 T09S R21E 0630 FNL 1765 FWL
	BHL	Sec 27 T09S R21E 0300 FNL 1730 FWL
43-047-40169	NBU 921-26IT	Sec 26 T09S R21E 1964 FSL 0674 FEL
43-047-40176	NBU 922-29NT	Sec 29 T09S R22E 0845 FSL 1627 FWL
43-047-40177	NBU 922-29KT	Sec 29 T09S R22E 1795 FSL 1936 FWL
43-047-40178	NBU 922-31BT	Sec 31 T09S R22E 0888 FNL 2191 FEL

43-047-40179	NBU 922-32ET	Sec 32	T09S	R22E	2477	FNL	0094	FWL
43-047-40186	NBU 922-33OT	Sec 33	T09S	R22E	0692	FSL	1465	FEL
43-047-40187	NBU 922-33NT	Sec 33	T09S	R22E	0890	FSL	2291	FWL
43-047-40188	NBU 922-33IT	Sec 33	T09S	R22E	2115	FSL	0579	FEL
43-047-40191	NBU 1022-04GT	Sec 04	T10S	R22E	1897	FNL	1861	FEL
43-047-40189	NBU 922-35IT	Sec 35	T09S	R22E	2133	FSL	0627	FEL
43-047-40190	NBU 1022-01CT	Sec 01	T10S	R22E	0819	FNL	2106	FWL
43-047-40192	NBU 1022-08IT	Sec 08	T10S	R22E	1757	FSL	0323	FEL
43-047-40193	NBU 1022-08GT	Sec 08	T10S	R22E	2313	FNL	1922	FEL
43-047-40194	NBU 1022-09AT	Sec 09	T10S	R22E	0472	FNL	0582	FEL
43-047-40195	NBU 1022-10HT	Sec 10	T10S	R22E	1798	FNL	0297	FEL
43-047-40196	NBU 1022-10FT	Sec 10	T10S	R22E	2200	FNL	2094	FWL
43-047-40204	NBU 1022-32D1S	Sec 32	T10S	R22E	0205	FNL	2058	FWL
	BHL	Sec 32	T10S	R22E	0270	FNL	1310	FWL
43-047-40205	NBU 1022-32D4AS	Sec 32	T10S	R22E	0198	FNL	2077	FWL
	BHL	Sec 32	T10S	R22E	0760	FNL	1180	FWL
43-047-40206	NBU 1022-32B3S	Sec 32	T10S	R22E	0185	FNL	2114	FWL
	BHL	Sec 32	T10S	R22E	1150	FNL	2130	FEL
43-047-40207	NBU 1022-32D4DS	Sec 32	T10S	R22E	0192	FNL	2096	FWL
	BHL	Sec 32	T10S	R22E	1240	FNL	1050	FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:7-15-08



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

July 16, 2008

Kerr-McGee Oil & Gas Onshore, LP
P O Box 173779
Denver, CO 80217-3779

Re: NBU 922-33OT Well, 692' FSL, 1465' FEL, SW SE, Sec. 33, T. 9 South, R. 22 East,
Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40186.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Office

Operator: Kerr-McGee Oil & Gas Onshore, LP

Well Name & Number NBU 922-33OT

API Number: 43-047-40186

Lease: UTU-01191

Location: SW SE **Sec.** 33 **T.** 9 South **R.** 22 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0187
Expires: July 31, 2010

RECEIVED

JUL 10 2008

RECEIVED
VERNAL FIELD OFFICE

UTU-01191

BLM

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☐ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator

Kerr-McGee Oil & Gas Onshore, LP

3a. Address

P.O. Box 173779
Denver, CO 80217-3779

3b. Phone No. (include area code)

720.929.6226

10. Field and Pool, or Exploratory

Natural Buttes Field

4. Location of well (Report location clearly and in accordance with any State requirements. *)

At surface 692 FSL 1465 SW SE Lat. 39.987197 Long. -109.440117
FEL

At proposed prod. zone N/A

NAD 27

11. Sec., T., R., M., or Blk. and Survey or Area

Sec 33 T 9S R 22E

14. Distance in miles and direction from the nearest town or post office*

25.75 miles northeast of Ouray, Utah

12. Cou State

Utah

Utah

15. Distance from proposed*

location to nearest
property or lease line, ft.

692'

(Also to nearest drlg. unit line, if any.)

16. No. of acres in lease

1041.78

17. Spacing Unit dedicated to this well

40

18. Distance from proposed location*

to nearest well, drilling, completed,
applied for, on this lease, ft.

20'

19. Proposed Depth

9,000

20. BLM/ BIA Bond No. on file

WYB000291

21. Elevations (Show whether DF, RT, GR, etc.)

5,106'

GR

22. Approximate date work will start*

Upon Approval

Esti

mat

10 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Land, SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by existing bond on file (see item 20 above).

5. Operator certification.

6. Such other site specific information and/ or plans as may be required by authorized officer.

25. Signature

Name (Printed/ Typed)

Kevin McIntyre

Title Regulatory Analyst

Approved By (Signature)

Name (Printed/ Typed)

Title Assistant Field Manager

Office

VERNAL FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

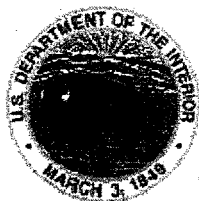
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Kerr McGee Oil & Gas
Well No: NBU 922-33OT
API No: 43-047-40186

Location: SWSE, SEC.33, T9S,R22E
Lease No: UTU-01191
Agreement: NATURAL BUTTES UNIT

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	(435) 828-3546
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
NRS/Enviro Scientist:	David Gordon	(435) 781-4424	
NRS/Enviro Scientist:	Christine Cimiluca	(435) 781-4475	
NRS/Enviro Scientist:	Lori Ford	(435) 781-4406	

Fax: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

SITE SPECIFIC CONDITIONS OF APPROVAL

- Surface Conditions of Approval or monitoring are listed in the Surface Use Plan of the APDs.
- Spot monitor the construction of the pit by a qualified, permitted paleontologist. Report all mitigation-curation of vertebrates and other scientifically significant fossils that may be affected by the construction.
- During operations, if any vertebrate paleontological resources are discovered, in accordance with **Section 6 of Form 3100-11 and 43CFR 3162.1**, all operations affecting such sites shall be immediately suspended, and all discoveries shall be left intact until authorized to proceed by the Authorized Officer. The appropriate Authorized Officer of the Vernal BLM office shall be notified within 48 hours of the discovery, and a decision as to the preferred alternative/course of action will be rendered.
- An Interim Surface Reclamation Plan for surface disturbance on the well pad, access road, and pipeline would be completed. At a minimum, this would include the Best Management Practice of the reshaping of the pad to the original contour to the extent possible; the re-spreading of the top soil up to the rig anchor points; and, reseeding the area using appropriate reclamation methods. The areas of the location not needed for production operations, including portions of the pad and the reserve pits, would have the stock piled top soil spread evenly over the reclaimed surface, and be seeded with the recommended seed mix shown below. If it is determined that this well site would be used as a multi-well site the interim reclamation would be delayed until all wells are constructed at the site.

- Interim Reclamation seed mix

Hy/crest crested wheatgrass	<i>Agropyron cristatum</i>	3 lbs. /acre
needle and threadgrass	<i>Stipa comat</i>	3 lbs. /acre
globemallow	<i>Spaeralcea coccinea</i>	1 lbs. /acre
shadscale	<i>Atriplex confertifolia</i>	2 lbs. /acre
fourwing saltbush	<i>Atriplex canescens</i>	3 lbs. /acre

- Following well plugging and abandonment, the location, access roads, pipelines, and other facilities shall be reclaimed. All disturbed surfaces shall be reshaped to approximate the original contour; the top soil re-spread over the surface; and, the surface re-vegetated. The surface of approved staging areas where construction activities did not occur may require disking or ripping and reseeding.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- Surface casing cement shall be brought up and into the surface. Top of Cmnt is to reach surf. For the Surface casing cementing program (operator's specified Option 1 where well does not circulate water), operator is required to pump additional cement beyond the stated amounts in application.
- Production casing cement shall be brought up and into the surface casing. Production casing minimum cement top is 1400 ft. The minimum cement top is approximately 0700 ft above the surface casing shoe.
 - Cmnt Top (TOC) standard will place cmnt behind casing across formation lost circulation zone, Birds Nest Zone.
 - COA specification fulfills operators performance standard stated in APD (where operators toc is calc'd with an excess to reach surface).
- Operator is to notify BLM Vernal Field Office and active gilsonite mining operator (or lease holder) located within a 2 mile radius, 48 hours prior to pad explosives blasting. Well is not close to gilsonite vein, but on trend to gilsonite vein deposits.
- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
- Drilling plan specifics and practices are referenced in the Kerr McGee Oil & Gas Standard Operating Procedures (SOP version: July 28, 2008). The operators drilling plan items 3 to 9 reference the SOP. Kerr McGee shall adhere to the referenced requirements in the SOP.
 - Kerr McGee and their contractors shall adhere to all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders except where variances have been granted.
- Covering air/gas drilling operations, requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.
- A Gamma Ray well Log shall be run from the well Total Depth to the surface.
A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.

- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

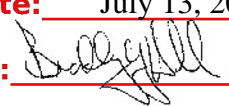
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																														
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SIGNATURE N/A	DATE 7/7/2009																															



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047401860000

API: 43047401860000

Well Name: NBU 922-330T

Location: 0692 FSL 1465 FEL QTR SWSE SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 7/16/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
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**Approved by the
Utah Division of
Oil, Gas and Mining**

Signature: Danielle Piernot

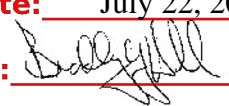
Date: 7/7/2009

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: July 13, 2009

By: 

RECEIVED July 07, 2009

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The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047401860000

API: 43047401860000

Well Name: NBU 922-330T

Location: 0692 FSL 1465 FEL QTR SWSE SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 7/16/2008

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**Approved by the
Utah Division of
Oil, Gas and Mining**

Signature: Danielle Piernot

Date: 7/16/2010

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: July 22, 2010

By:

RECEIVED July 16, 2010

API Well No: 43047401860000

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<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK																														
<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION																														
<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON																														
<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL																														
<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION																														
<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>																														
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests to change the total depth (TD) to include the Blackhawk formation, which is in the Mesaverde group for this well. Please see the attached for additional details. All of the original information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.																																
NAME (PLEASE PRINT) Danielle Piernot		PHONE NUMBER 720 929-6156																														
SIGNATURE N/A		TITLE Regulatory Analyst																														
DATE 10/27/2010		DATE: <u>October 28, 2010</u> By:																														

RECEIVED October 27, 2010

KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP				DATE	October 27, 2010		
WELL NAME	NBU 922-33OT				TD	10,100'	TVD	10,100' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	5,106'
SURFACE LOCATION	SW/4 SE/4	692' FSL	1,465' FEL	Sec 33	T 9S	R 22E	BHL	Straight Hole
	Latitude: 39.987164		Longitude: -109.440800		NAD 83			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde							
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), BLM (SURFACE), UDOGM, Tri-County Health Dept.							

GEOLOGICAL				MECHANICAL		
LOGS	FORMATION	DEPTH		HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'			14"	
				11"	8-5/8", 28#, IJ-55, LTC	Air mist
<p>All water flows encountered while drilling will be reported to the appropriate agencies.</p> <p>Green River @ 1,286'</p> <p>Top of Birds Nest @ 1,608'</p> <p>Mahogany @ 1,983'</p> <p>Preset f/ GL @ 2,430' MD</p> <p>Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.</p> <p>Wasatch @ 4,557' TVD</p> <p>Mud logging program TBD</p> <p>Cased hole logging program from TD - surf csg</p> <p>Mverde @ 6,908' TVD</p> <p>MVU21 @ 7,822' TVD</p> <p>MVU1 @ 8,389' TVD</p> <p>Sego @ 8,980' TVD</p> <p>Castlegate @ 9,246' TVD</p> <p>MN5 @ 9,693' TVD</p> <p>Max anticipated Mud required 12.8 ppg TD @ 10,100' TVD MD</p>						
				7-7/8"	4-1/2" 11.6# HCP-110 or equivalent BTC/LTC csg	Water / Fresh Water Mud 8.3-12.8 ppg



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,430'	28.00	IJ-55	LTC	0.75	1.65	5.06
						10,690	8,650	367,000
PRODUCTION	4-1/2"	0 to 10,100'	11.60	HCP-110	BTC	4.81	1.29	3.89

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.21

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))
(Burst Assumptions: TD = 12.8 ppg) 0.22 psi/ft = gradient for partially evac wellbore
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buo.Fact. of water)
MASP 4,385 psi
- 2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
(Burst Assumptions: TD = 12.8 ppg) 0.65 psi/ft = bottomhole gradient
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buo.Fact. of water)
MABHP 6,607 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	1,930'	65/35 Poz + 6% Gel + 10 pps gilsonite	180	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,050'	Premium Lite II + 3% KCl + 0.25 pps	300	20%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	6,050'	50/50 Poz/G + 10% salt + 2% gel	1,270	20%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

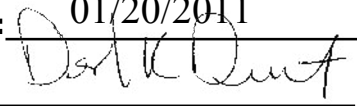
Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: John Huycke / Emile Goodwin
DRILLING SUPERINTENDENT: John Merkel / Lovel Young

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																														
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191																														
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:																														
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES																														
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-330T																														
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0692 FSL 1465 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 33 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047401860000																														
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES																														
COUNTY: UINTAH		STATE: UTAH																														
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																																
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/10/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input type="checkbox"/> OTHER</td> <td>OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) respectfully requests to change the surface hole size FROM: 11" TO: 12 1/4". Please see the attached drilling program for additional details. All other information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.																																
Accepted by the Utah Division of Oil, Gas and Mining Date: 01/20/2011 By: 																																
NAME (PLEASE PRINT) Danielle Piernot		PHONE NUMBER 720 929-6156																														
SIGNATURE N/A		TITLE Regulatory Analyst																														
DATE 1/10/2011																																

KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP				DATE	January 6, 2011	
WELL NAME	NBU 922-33OT				TD	10,100'	10,100' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	5,106'
SURFACE LOCATION	SW/4 SE/4	692' FSL	1,465' FEL	Sec 33	T 9S	R 22E	BHL Straight Hole
	Latitude:	39.987164	Longitude:	-109.440800	NAD 83		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), BLM (SURFACE), UDOGM, Tri-County Health Dept.						

GEOLOGICAL				MECHANICAL		
LOGS	FORMATION	DEPTH		HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'			14"	
				12.25"	8-5/8", 28#, IJ-55, LTC	Air mist
<p>All water flows encountered while drilling will be reported to the appropriate agencies.</p> <p>Green River @ 1,286'</p> <p>Top of Birds Nest @ 1,608'</p> <p>Mahogany @ 1,983'</p> <p>Preset f/ GL @ 2,430' MD</p> <p>Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.</p> <p>Wasatch @ 4,557' TVD</p> <p>Mud logging program TBD</p> <p>Cased hole logging program from TD - surf csg</p> <p>Mverde @ 6,908' TVD</p> <p>MVU21 @ 7,822' TVD</p> <p>MVU1 @ 8,389' TVD</p> <p>Sego @ 8,980' TVD</p> <p>Castlegate @ 9,246' TVD</p> <p>MN5 @ 9,693' TVD</p> <p>Max anticipated Mud required 12.8 ppg TD @ 10,100' TVD MD</p>						
				7-7/8"	4-1/2" 11.6# HCP-110 or equivalent BTC/LTC csg	Water / Fresh Water Mud 8.3-12.8 ppg



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,430'	28.00	IJ-55	LTC	0.75	1.65	5.06
						10,690	8,650	367,000
PRODUCTION	4-1/2"	0 to 10,100'	11.60	HCP-110	BTC	4.81	1.29	3.89

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.21

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.8 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buo.Fact. of water)

MASP 4,385 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.8 ppg)

0.65 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buo.Fact. of water)

MABHP 6,607 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	290	60%	15.80	1.15
	Option 1		+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	430	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	1,930'	65/35 Poz + 6% Gel + 10 pps gilsonite	290	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	250	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,050'	Premium Lite II + 3% KCl + 0.25 pps	300	20%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	6,050'	50/50 Poz/G + 10% salt + 2% gel	1,270	20%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: John Merkel / Lovel Young

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By ANDY LYTLE Phone Number 720.929.6100
Well Name/Number NBU 922-33OT
Qtr/Qtr SWSE Section 33 Township 9S Range 22E
Lease Serial Number UTU-01191
API Number 4304740186

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 01/19/2011 08:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

RECEIVED

JAN 19 2011

DIV. OF OIL, GAS & MINING

Date/Time 03/01/2011 08:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.781.7048 OR LOVEL YOUNG AT 435.828.0986

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-330T
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0692 FSL 1465 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 33 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047401860000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 1/19/2011 <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/28 SX READY MIX SPUD WELL LOCATION ON JANUARY 19, 2011 AT 10:30 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY 01/21/2011		
NAME (PLEASE PRINT) Gina Becker		PHONE NUMBER 720 929-6086
SIGNATURE N/A		TITLE Regulatory Analyst II
DATE 1/21/2011		

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740186	NBU 922-33OT		SWSE	33	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>3900</u>	1/19/2011			<u>1/26/2011</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 01/19/2011 AT 10:30 HRS.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

GINA BECKER

Name (Please Print)

Signature

REGULATORY ANALYST

Title

1/21/2011

Date

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JAN 24 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-330T
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0692 FSL 1465 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 33 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047401860000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/10/2011			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 MIRU PROPETRO AIR RIG #11 ON FEBRUARY 7, 2011. DRILLED 12 1/4" SURFACE HOLE TO 2340'. RAN 8 5/8" 28# IJ-55 SURFACE CSG. PUMP 140 BBLS FRESH WATER. PUMP 20 BBLS GEL WATER. PUMP 250 SX CLASS G PREM @ 15.8 PPG, 1.15 YD. NO CIRC. DROP PLUG ON THE FLY, DISPLACED W/ 142.4 BBLS WATER. LIFT PRESSURE 140 PSI, DIDN'T BUMP PLUG; FLOAT HELD. TOP OUT #1 W/ 100 SX CLASS G PREM @ 15.8 PPG, 1.15 YD. CEMENT FELL. TOP OUT #2 W/ 100 SX CLASS G PREM @ 15.8 PPG, 1.15 YD. NO CEMENT TO SURFACE. WILL HAVE PETE MARTIN RIG TOP OFF SURFACE CEMENT. WORT.

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A		DATE 2/11/2011

 Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY

SUBMIT AS EMAIL

Print Form

BLM - Vernal Field Office - Notification Form

Operator ANADARKO Rig Name/# PIONEER 69
Submitted By DALTON KING Phone Number 435-828-0982
Well Name/Number NBU 922-33OT
Qtr/Qtr SW-SE Section 33 Township 9S Range 22E
Lease Serial Number UTU-01191
API Number 43-047-40186

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time _____ AM ☐ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time 03/17/2011 10:00 AM ☒ PM ☐

Remarks TIME IS ESTIMATED

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MAR 17 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-330T
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0692 FSL 1465 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 33 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047401860000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/26/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2340' TO 10,105' ON MARCH 24, 2011. RAN 4-1/2" 11.6# P-110 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASE PIONEER RIG 69 ON MARCH 26, 2011 @ 24:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Gina Becker		PHONE NUMBER 720 929-6086
SIGNATURE N/A		TITLE Regulatory Analyst II
DATE 3/28/2011		

SUBMIT AS EMAIL

Print Form

BLM - Vernal Field Office - Notification Form

Operator ANADARKO Rig Name/# PIONEER 69
Submitted By DALTON KING Phone Number 435-828-0982
Well Name/Number NBU 922-33OT
Qtr/Qtr SW/SE Section 33 Township 9S Range 22E
Lease Serial Number UTU-01191
API Number 43-047-40186

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
☐ Intermediate Casing
☒ Production Casing
☐ Liner
☐ Other

Date/Time 03/25/2011 22:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks TIME IS ESTIMATED

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MAR 24 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-330T
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0692 FSL 1465 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 33 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047401860000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/12/2011	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 04/12/2011 AT 1:30 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/13/2011	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			5. Lease Serial No. UTU01191		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE			7. Unit or CA Agreement Name and No. 891008900A		
3. Address POBOX 173779 DENVER, CO 80217			8. Lease Name and Well No. NBU 922-330T		
3a. Phone No. (include area code) Ph: 720-929-6086			9. API Well No. 43-047-40186		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SWSE 692FSL 1465FEL 39.987159 N Lat, 109.440795 W Lon At top prod interval reported below SWSE 692FSL 1465FEL 39.987159 N Lat, 109.440795 W Lon At total depth SWSE 692FSL 1465FEL 39.987159 N Lat, 109.440795 W Lon			10. Field and Pool, or Exploratory NATURAL BUTTES		
14. Date Spudded 01/19/2011			11. Sec., T., R., M., or Block and Survey or Area Sec 33 T9S R22E Mer SLB		
15. Date T.D. Reached 03/24/2011			12. County or Parish UINTAH		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/12/2011			13. State UT		
17. Elevations (DF, KB, RT, GL)* 5106 GL					
18. Total Depth: MD 10105 TVD 10102			19. Plug Back T.D.: MD 10041 TVD 10038		
20. Depth Bridge Plug Set: MD TVD					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) SCBL-BHP-HDIL/ZDL/CNCR			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)		

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7		40		28			
12.250	8.625 IJ-55	28.0		2325		743		0	
7.875	4.500 P-110	11.6		10087		1875		860	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	9548							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	6870	6944	6870 TO 8364	0.360	12	OPEN
B) MESAVERDE	7090	8697	7090 TO 8697	0.360	145	OPEN
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
6870 TO 8694	PUMP 7,863 BBLs SLICK H2O & 245,896 LBS SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/12/2011	04/14/2011	24	→	0.0	2744.0	1075.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	2075	2750.0	→	0	2744	1075		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #108326 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

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MAY 24 2011

DIV. OF OIL, GAS & MINING

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1249 1611 2087 4500 6963	6963 10105			

32. Additional remarks (include plugging procedure):

Attached is the chronological well history. Completion chrono details individual frac stages.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #108326 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal**

Name (please print) GINA T. BECKERTitle REGULATORY ANALYSTSignature (Electronic Submission)Date 05/13/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-33OT	Spud Conductor: 1/19/2011	Spud Date: 2/8/2011
Project: UTAH-UINTAH	Site: NBU 922-33OT	Rig Name No: PROPETRO 11/11, PIONEER 69/69
Event: DRILLING	Start Date: 1/24/2011	End Date: 3/26/2011

Active Datum: RKB @5,124.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/22/E/33/0/0/26/PM/S/692/E/0/1465/0/0
--	---

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/7/2011	10:00 - 20:00	10.00	MIRU	01	A	P		MOVE RIG AND ALL EQUIPMENT ONTO LOCATION, DRESS TOP OF CONDUCTOR. INSTALL DIVERTER HEAD AND BOWIE LINE. BUILD DITCH. MOVE RIG OVER HOLE AND RIG UP.. SET CATWALK AND PIPE RACKS.
2/8/2011	20:00 - 0:00	4.00	MAINT	08	A	X		WORK ON PACKING ON TOP DRIVE,
	0:00 - 2:00	2.00	MAINT	08	A	X		REPAIR WASH PIPE AND PACKING ON TOP DRIVE
	2:00 - 3:00	1.00	PRSPD	01	B	P		RIG UP AND PRIME PIT PUMP AND MUD PUMP. P/U 1.50 DEG BENT HOUSING HUNTING MTR SN 8013 . 7/8 LOBE .17 RPM. M/U Q507 SN 7133231 1ST RUN, W/ 7-18'S. INSTALL RUBBER.
	3:00 - 4:00	1.00	DRLSUR	02	A	P		SPUD SURFACE 02/08/2011 @ 03:00 HRS. DRILL 12.25" SURFACE HOLE F/40'-120' (80' @ 80'/HR) PSI ON/ OFF 690/410, UP/ DOWN/ ROT 25/20/23. 500 GPM, 45 RPM ON TOP DRIVE, 15-18K WOB
	4:00 - 5:00	1.00	DRLSUR	06	A	P		TOOH, PU AND ORIENT DIR TOOLS, TIH T/ 120'
2/8/2011	5:00 - 12:00	7.00	DRLSUR	02	A	P		DRILL 12.25" SURFACE HOLE F/120'-490' (370' @ 52'/HR) PSI ON/ OFF 800/520, UP/ DOWN/ ROT 29/24/27. 500 GPM, 45 RPM ON TOP DRIVE, 15-18K WOB, HOLE STARTED TO DEVIATE EVEN WHILE SLIDING W/ 1.20 DEG MTR.
	12:00 - 16:30	4.50	DRLSUR	06	A	S		TOOH, PU NEW 1.83 DEG BENT MUD MTR, .17 RPG, TO CONTROL DEVIATION, TIH T/490'
	16:30 - 20:30	4.00	DRLSUR	02	A	P		DRILL 12.25" SURFACE HOLE F/490'-790' (300' @ 75'/HR) PSI ON/ OFF 1020/850, UP/ DOWN/ ROT 48/42/45. 500 GPM, 45 RPM ON TOP DRIVE, 15-18K WOB
	20:30 - 0:00	3.50	DRLSUR	08	A	X		WASH PIPE AND PACKING BLEW SEAL, WAIT ON MECHANIC AND PARTS, REPAIR RIG
	0:00 - 6:00	6.00	MAINT	08	A	X		WASH PIPE AND PACKING BLEW SEAL, WAIT ON MECHANIC AND PARTS, REPAIR RIG
2/9/2011	6:00 - 0:00	18.00	DRLSUR	02	A	P		DRILL 12.25" SURFACE HOLE F/790'-1870' (1080' @ 60'/HR) PSI ON/ OFF 1150/890, UP/ DOWN/ ROT 78/57/67. 500 GPM, 45 RPM ON TOP DRIVE, 15-18K WOB, CIRC RESERVE PIT, LOST TOTAL CIRC @ 1710', DRLG W/ AIREATED H2O.
	0:00 - 9:00	9.00	DRLSUR	02	A	P		DRILL 12.25" SURFACE HOLE F/1870'-2340' (470' @ 52'/HR) PSI ON/ OFF 1100/890, UP/ DOWN/ ROT 78/57/67. 500 GPM, 45 RPM ON TOP DRIVE, 15-18K WOB, CIRC RESERVE PIT, DRLG W/ AIREATED H2O
2/10/2011	9:00 - 10:00	1.00	DRLSUR	05	F	P		CIRC AND COND HOLE CLEAN
	10:00 - 14:30	4.50	DRLSUR	06	A	P		TOOH, LDDS, BIT, MTR AND DIR BHA
	14:30 - 15:30	1.00	CSG	12	A	P		RIG UP TO RUN SURFACE CSG, MOVE PIPE RACKS AND CATWALK, MOVE CSG OVER TO WORK AREA.
	15:30 - 19:30	4.00	CSG	12	A	P		HELD SAFETY MEETING, RUN CSG. RAN 52JTS OF 8-5/8", 28#, J-55, 8 RND SURFACE CSG W/ LTC THREADS. LANDED FLOAT SHOE @ 2311.26' KB. RAN BAFFLE PLATE IN TOP OF SHOE JT LANDED 2265.26' KB. FILL CSG @ 500', 1500', AND 2360'
								RIG DOWN AND RELEASE RIG 2/10/2011 @ 23:59

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-33OT	Spud Conductor: 1/19/2011	Spud Date: 2/8/2011
Project: UTAH-UINTAH	Site: NBU 922-33OT	Rig Name No: PROPETRO 11/11, PIONEER 69/69
Event: DRILLING	Start Date: 1/24/2011	End Date: 3/26/2011
Active Datum: RKB @5,124.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/22/E/33/0/0/26/PM/S/692/E/0/1465/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	19:30 - 0:00	4.50	CSG	12	E	P		<p>HOLD SAFETY MEETING. INSTALL CEMENT HEAD. PSI TEST TO 2000 PSI. PUMP 140 BBLs OF 8.3# H2O AHEAD. NO CIRC. PUMP 20 BBLs OF 8.4# GEL WATER AHEAD. NO CIRC. PUMP 250 SX (51 BBLs) OF 15.8# 1.15 YIELD TAIL(2% CALC, 1/4# /SK OF FLOCELE). NO CIRC. DROP PLUG ON FLY AND DISPLACE W/142.4 BBLs OF 8.3# H2O. LIFT PRESSURE WAS 140 PSI, DIDN'T BUMP PLUG, FLOAT HELD.</p> <p>TOP OUT, PUMP 100 SX (20.4 BBLs) OF 15.8# 1.15 YIELD TAIL(4 % CALC, 1/4# /SK OF FLOCELE) CMT FELL, WAIT TWO HRS PUMP 100SX (20.4 BBLs) OF 15.8# 1.15 YIELD TAIL(4 % CALC, 1/4# /SK OF FLOCELE)."NO CMT TO SURFACE" HAD PETE MARTIN TOP OFF SURFACE CMT W/293 SX (60 BBLs) TAIL CMT. RIG DOWN CEMENTERS AND RELEASE CEMENTERS 23:59</p> <p>CONDUCTOR CASING: Cond. Depth set: 40' Cement sx used: 28</p> <p>SPUD DATE/TIME: 02/05/2011 14:00</p> <p>SURFACE HOLE: Surface From depth: 40' Surface To depth: 2,340 Total SURFACE hours: 39 Surface Casing size: 8.625" # of casing joints ran: 52 Casing set MD: 2311.26' # sx of cement: 250/493 Cement blend (ppg): 15.8/15.8 Cement yield (ft3/sk): 1.15/1.15 # of bbls to surface: 0 Describe cement issues: NONE Describe hole issues: LOST TOTAL CIRC # 1700' RDRT TO MOVE TO THE NBU 922-33OT</p>
3/16/2011	3:00 - 7:00	4.00	DRLPRO	01	E	P		FINISH RIGING DOWN. LOADED OUT EQUIPMENT AND MOVED TO THE NBU 922-33OT.
	7:00 - 14:00	7.00	DRLPRO	01	A	P		MOVED IN SET AND CENTERED SUB. SET COOLING TOWER, MUD BOAT, PITS, PUMPS, GENERATORS, KOOMY, DAY TANK FUEL TANK, CATWALK AND ALL OTHER EQUIP.
	14:00 - 0:00	10.00	DRLPRO	01	B	P		RAISED/LEVELED THE DERRICK. STRUNG OUT ELECTRIC LINES, WATER LINES AND SUITCASES. WE HAD 5 BED TRUCKS,3 HAUL TRUCKS, 1 CRANE AND 1 FORKLIFT. TRUCK ARRIVED @ 7:00 RELEASED @ 22:00. CRANE ARRIVED 09:00 RELEASED @ 19:00. WHILE RIGGING UP SMITH INSPECTED THE TONGS, BAILS, BLOCKS, BRAKE LINKAGE, BRAKE BANDS, SWIVEL, SLIPS, AND ELEVATORS.
3/17/2011	0:00 - 5:30	5.50	DRLPRO	01	B	P		RIG UP THE FLOOR, PU TOOLS AFTER THE INSPECTION AND RIG THEM UP. FINISH RU ROTARY MOTOR, PU/MAKE UP KELLY AND SUBS PRE SPUD INSPECTION
	5:30 - 6:30	1.00	DRLPRO	23		P		LAY FLARE LINES, RU PIPE SPINNERS, KELLY SPINNERS, AND FINISH SETTING SAFETY EQUIP.
	6:30 - 11:00	4.50	DRLPRO	01	B	P		

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Event: DRILLING		Start Date: 1/24/2011		End Date: 3/26/2011	
Active Datum: RKB @5,124.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/22/E/33/0/0/26/PM/S/692/E/0/1465/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/18/2011	11:00 - 15:00	4.00	DRLPRO	14	A	P		NU THE BOP, CHOKE AND ALL ASSOCIATED EQUIP.
	15:00 - 17:00	2.00	DRLPRO	15	A	P		PRESSURE TESTED THE UPPER/LOWER KELLY VALVES. ATTEMPTED TO TEST BOP AND BLEW THE WELLHEAD GASKET.
	17:00 - 18:00	1.00	DRLPRO	22	J	S		CHANGE THE WELLHEAD O-RING OUT.
	18:00 - 20:00	2.00	DRLPRO	15	A	P		TEST BOP, FLOOR VALVES, INSIDE & OUTSIDE KILL LINE & CHOKE VALVES, HCR VALVE, PIPE RAMS, BLIND RAMS, CHOKE MANIFOLD 250 PSI F/ 5 MIN 5000 PSI F/ 10 MIN, ANNULAR TO 250 PSI F/ 5 MIN, 2500 F/ 10 MIN, CASING TO 1500 F/ 30 MIN, R/D TESTER
	20:00 - 20:30	0.50	DRLPRO	14	B	P		INSTALL THE WEAR BUSHING
	20:30 - 0:00	3.50	DRLPRO	06	A	P		SAFETY MEETING RU KIMSEY PU AND SCRIBED THE BHA. PU DP AND TIH.
	0:00 - 1:30	1.50	DRLPRO	06	A	P		PU DP AND TIH
	1:30 - 2:30	1.00	DRLPRO	08	A	Z		X/O PIPE SPINNERS
	2:30 - 3:30	1.00	DRLPRO	06	A	P		PU DP AND TIH
	3:30 - 5:30	2.00	DRLPRO	09	A	P		SLIPPED AND CUT 125' OF DRILLING LINE.
	5:30 - 6:00	0.50	DRLPRO	14	B	P		INSTALL DRIVE BUSHINGS
	6:00 - 7:30	1.50	DRLPRO	02	F	P		DRILLED CEMENT AND FLOAT EQUIP.
	7:30 - 16:00	8.50	DRLPRO	02	B	P		DRILL F/ 2354'-3323', 969/8.5HR, 114'/HR SLIDING 8% WOB 20-24K, RPM 50-60, MMRPM 111, SPM 140, GPM 530, UP/SO/ROT 100/80/94 ON/OFF 1200/1600, DIFF 350-450, WATER
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE
3/19/2011	16:30 - 0:00	7.50	DRLPRO	02	B	P		DRILL F/ 3323'-4117', 794/7.5HR, 105.9'/HR SLIDING 12% WOB 20-24K, RPM 50-60, MMRPM 111, SPM 140, GPM 530, UP/SO/ROT 112/90/105 ON/OFF 1250/1610, DIFF 350-450, WATER
	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 4117'-4683', 566/6HR, 94.3'/HR SLIDING 8% WOB 20-24K, RPM 50-60, MMRPM 111, SPM 140, GPM 530, UP/SO/ROT 125/100/114 ON/OFF 1250/1610, DIFF 350-450, WATER LOST APP. 400 BBLs.
	6:00 - 14:30	8.50	DRLPRO	02	B	P		DRILL F/ 4683'-5693', 1010/8.5HR, 118.8'/HR SLID 15', WOB 20-24K, RPM 50-60, MMRPM 111, SPM 140, GPM 530, UP/SO/ROT 150/115/130 ON/OFF 1500/1850, DIFF 300-400, WATER LOST APP. 1000 BBLs. OF WATER LIGHT MUD UP@ 5640' 35/VIS 9.1/WT, 3% LCM LOST 300 BBL. OF MUD DURING MUD UP.
	14:30 - 15:00	0.50	DRLPRO	07	A	P		RIG SERVICE WORK PIPE RAMS
3/20/2011	15:00 - 0:00	9.00	DRLPRO	02	B	P		DRILL F/ 5693'-6357', 694/9HR, 73.8'/HR, SLID 6', WOB 20-24K, RPM 50-60, MMRPM 95, SPM 120, GPM 454, UP/SO/ROT 165/125/140 ON/OFF 1625/2040, DIFF 350-450, 35/VIS, 9.2/WT., 4% LCM. HAD A 10' FLARE @ 6200'
	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 6357'-6768', 411/6HR, 68.5'/HR, WOB 20-24K, RPM 50-60, MMRPM 95, SPM 120, GPM 454, UP/SO/ROT 165/125/140 ON/OFF 1625/2040, DIFF 350-450, 35/VIS, 9.3/WT., 4% LCM.
	6:00 - 16:30	10.50	DRLPRO	02	B	P		DRILL F/ 6768'-7654', 886/10.5HR, 84.4'/HR, SLID 8' WOB 20-24K, RPM 50-60, MMRPM 95, SPM 120, GPM 454, UP/SO/ROT 185/140/155 ON/OFF 1860/2295, DIFF 350-450, 38/VIS, 9.9/WT., 4% LCM.
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SERVICE

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Event: DRILLING		Start Date: 1/24/2011		End Date: 3/26/2011	
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/21/2011	17:00 - 0:00	7.00	DRLPRO	02	B	P		DRILL F/ 7654'-8200', 546'/7HR, 78'/HR, WOB 20-24K, RPM 50-60, MMRPM 95, SPM 120, GPM 454, UP/SO/ROT 190/140/165 ON/OFF 1920/2230, DIFF 300-400, 40/VIS, 10.6/WT., 4% LCM.
	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 8200'-8477', 277'/6HR, 46.2'/HR, WOB 20-24K, RPM 50-60, MMRPM 95, SPM 120, GPM 454, UP/SO/ROT 190/140/165 ON/OFF 1950/2380, DIFF 300-400, 40/VIS, 11.1/WT., 5% LCM.
	6:00 - 16:30	10.50	DRLPRO	02	B	P		DRILL F/ 8477'-9015', 538'/10.5HR, 51.2'/HR, WOB 20-24K, RPM 50-60, MMRPM 95, SPM 120, GPM 454, UP/SO/ROT 200/135/164 ON/OFF 1975/2340, DIFF 300-400, 40/VIS, 11.5/WT., 6% LCM.
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SERVICE OPERATE ANNULAR
	17:00 - 22:30	5.50	DRLPRO	02	B	P		DRILL F/ 9015'-9160', 145'/5.5HR, 26.4'/HR, WOB 20-24K, RPM 50-60, MMRPM 91, SPM 115, GPM 435, UP/SO/ROT 200/135/164 ON/OFF 1975/2340, DIFF 300-400, 40/VIS, 11.5/WT., 6% LCM.
3/22/2011	22:30 - 0:00	1.50	DRLPRO	05	C	P		CIRC. COND., BUILD A 60 BBL. 13.5PPG SLUG,PUMP THE SLUG.
	0:00 - 8:00	8.00	DRLPRO	06	A	P		TOH LD 44JTS OF DP, .21 MM, AND THE DIRECTIONAL TOOLS RIG IS STILL LEVEL.
	8:00 - 12:00	4.00	DRLPRO	06	A	P		PU A .16 HUNTING MM, TIH W/ BHA. PU 44 JTS OF NEWLY HARDBANDED DP. TIH TO THE SHOE CUT AND SLIPPED 60' OF DRILLING LINE
	12:00 - 13:00	1.00	DRLPRO	09	A	P		RIG SERVICE
	13:00 - 13:30	0.50	DRLPRO	07	A	P		TIH TO 4600'. HAD A BRIDGE @ 4420'.
	13:30 - 14:30	1.00	DRLPRO	06	A	P		WE STOPPED TO FILL PIPE AND CHECK CIRC. HAD FLOW FOR A FEW MINUTES THEN LOST RETURNS. LOST APP. 250 BBL. BUILT VOLUME AND RAISED LCM TO A 12- 15% LEVEL.
	14:30 - 17:00	2.50	DRLPRO	22	G	X		TIH TO 9066'
	17:00 - 19:00	2.00	DRLPRO	06	A	P		REAM F/ 9066'-9160'
	19:00 - 20:30	1.50	DRLPRO	03	E	P		DRILL F/ 9160'-9294', 134'/3.5HR, 38.3'/HR, WOB 17-24K, RPM 45-50, MMRPM 70, SPM 115, GPM 435, UP/SO/ROT 205/145/170 ON/OFF 2450/2160, DIFF 200-350, 42/VIS, 11.8/WT., 12% LCM.
	20:30 - 0:00	3.50	DRLPRO	02	A	P		DRILL F/ 9294'-9539', 245'/6HR, 40.8'/HR, WOB 22-24K, RPM 45-50, MMRPM 70, SPM 115, GPM 435, UP/SO/ROT 205/145/170 ON/OFF 2450/2160, DIFF 200-350, 42/VIS, 12.2/WT., 12% LCM.
3/23/2011	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL F/ 9539'-9761', 222'/8.5HR, 26.1'/HR, WOB 22-24K, RPM 45-50, MMRPM 70, SPM 115, GPM 435, UP/SO/ROT 220/145/175 ON/OFF 2595/2260, DIFF250-350, 45/VIS, 12.6/WT., 12% LCM.
	6:00 - 14:30	8.50	DRLPRO	02	B	P		RIG SERVICE
	14:30 - 15:00	0.50	DRLPRO	07	A	P		DRILL F/9761'-10014', 253'/9HR, 28.1'/HR, WOB 18-23K, RPM 45-55, MMRPM 70, SPM 115, GPM 435, UP/SO/ROT 215/150/177 ON/OFF 2510/2350, DIFF 300-400, 44/VIS, 12.7/WT., 12% LCM.
	15:00 - 0:00	9.00	DRLPRO	02	B	P		DRILL F/10014'-10105, 91'/3.5HR, 26'/HR, WOB 18-23K, RPM 45-55, MMRPM 70, SPM 115, GPM 435, UP/SO/ROT 215/150/177 ON/OFF 2510/2350, DIFF 300-400, 44/VIS, 12.7/WT., 12% LCM.
	0:00 - 3:30	3.50	DRLPRO	02	B	P		CIRC./COND. FOR WIPER TRIP.
3/24/2011	3:30 - 5:30	2.00	DRLPRO	05	C	P		WIPER TRIP TO THE SHOE
	5:30 - 9:00	3.50	DRLPRO	06	E	P		WE LOADED 130 BBL. OF 12.7# MUD ON TRUCKS FOR A PRODUCTION RIG. THEN BUILT OUR MUD VOLUME UP BEFORE TRIPPING BACK IN THE HOLE
	9:00 - 11:30	2.50	DRLPRO	05	B	S		TIH
	11:30 - 15:00	3.50	DRLPRO	06	E	P		

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Project: UTAH-UINTAH		Site: NBU 922-33OT		Rig Name No: PROPETRO 11/11, PIONEER 69/69	
Event: DRILLING		Start Date: 1/24/2011		End Date: 3/26/2011	
Active Datum: RKB @5,124.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/22/E/33/0/0/26/PM/S/692/E/0/1465/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/25/2011	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:30 - 17:30	2.00	DRLPRO	05	C	P		CIRC. COND THE HOLE FOR LOGS. MIX A 60 BBL. 14.5 PPG PILL
	17:30 - 21:30	4.00	DRLPRO	06	B	P		TOH TO THE CSG SHOE PULLED 30K OVER AT 9400' & 4200'
	21:30 - 0:00	2.50	DRLPRO	05	A	P		PUMPED 100 BBL OF LCM MUD TO THE EMPTY UPRIGHT FOR STORAGE. CIRC TO CLEAN THE LCM OUT OF THE REMAINING MUD FOR THE CASING CALIPER LOG.
	0:00 - 0:30	0.50	DRLPRO	05	A	P		SHAKE LCM OUT AT THE SHOE FOR THE SURFACE CASING LOG.
	0:30 - 2:30	2.00	DRLPRO	06	B	P		FINISH THE TOH F/ LOGS. LD MM AND PDC BIT.
	2:30 - 7:30	5.00	DRLPRO	11	D	P		HELD A S/M W/ BAKER. RU THE LOGGING TOOLS AND RAN TRIPLE COMBO LOG. DRILLERS TD/10105', LOGGERS TD 10104'.
	7:30 - 11:00	3.50	DRLPRO	11	E	P		S/M W/ WEATERFORD. RU AND RAN THE 60 FINGER CALIPER LOG ON THE 8 5/8 SURFACE CASING. THE CASING LOOKED GOOD FROM TOP TO BOTTOM. WE HAD A LITTLE BUILD UP IN THE UPPER 100' OF THE PIPE. SHOE JT. LOOKED GOOD. RAISED THE LCM IN THE MUD PITS BACK TO 12%
	11:00 - 13:00	2.00	DRLPRO	06	A	P		TIH TO THE SHOE
	13:00 - 15:00	2.00	DRLPRO	05	A	P		FILLED THE PIPE AT THE SURFACE SHOE. DISPLACED THE CLEAN MUD TO THE RIG PIT. RAISED THE LCM BACK TO 12%. FORLIFT BROKE DOWN SO IT TOOK A LITTLE LONGER THAN PLANNED.
	15:00 - 18:30	3.50	DRLPRO	06	A	P		TIH TO 10046'
	18:30 - 19:00	0.50	DRLPRO	03	E	P		PU A JT OF DP AND WASHED TO 10105'. CLEAN HOLE, JUST HAD TO WASH THE MAKEUP JT DOWN.
	19:00 - 21:00	2.00	DRLPRO	05	C	P		CIRC./COND. BOTTOMS UP GAS 4930 UNITS. BUILT AND PUMPED A 14.6# PILL
	21:00 - 0:00	3.00	DRLPRO	06	A	P		LDDP
3/26/2011	0:00 - 7:00	7.00	DRLPRO	06	A	P		LDDP AND BHA
	7:00 - 7:30	0.50	DRLPRO	12	A	P		S/M AND RU KIMSEY CASING
	7:30 - 17:00	9.50	DRLPRO	12	C	P		RAN 232 JTS + 2 MARKER JTS. OF 4.5/HCP-110/11.6#/BTC CASING. LANDED/10086.5', SHOE/10085', FC/10039.25', MAKER JTS @ 6852.27'-6874.20', & 4493.70'-4516.03'. FILLED THE PIPE EVERY 50 JTS.
	17:00 - 18:30	1.50	DRLPRO	05	D	P		CIRC. @ 363 GPM/ 885# RD THE CASING CREW AND RU BJ TO CEMENT. HELD S/M W/ BJ CEMENTERS.
	18:30 - 20:30	2.00	DRLPRO	12	E	P		PRESS. TESTED TO 4500 PSI. PUMPED A 40 BBL. WATER SPACER. PUMPED 557 SKS (188 BBL.) OF PREMIUM LITE/12.7#/1.89 YLD LEAD CEMENT,FOLOWED W/ 1318 SKS (308 BBL.) OF50-50 POZ CLASS G/ 14.3#/ 1.31 TAIL CEMENT. WASHED UP DROPPED THE PLUG, DISPLACED W/ 156.4 BBL. OF CLAY TREAT WATER. LOST PATIAL RETURNS 120 BBL. INTO THE DISPLACEMENT. BUMPED THE PLUG @ 20:28 3/26/2011. LIFT PRESS/2700, BUMPED PLUG w/ 3500 PSI. held FOR 5 MIN RETURNED 1.5 BBL. TO THE TRUCK.
	20:30 - 0:00	3.50	DRLPRO	14	A	P		SET 110K WEIGHT ON SLIPS. NIPPLE DOWN CLEANED PITS. RIG RELEASED AT 00:00 3/26/2011 TO THE NBU 920-13G LOCATION.

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Event: DRILLING	Start Date: 1/24/2011	End Date: 3/26/2011
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	23:59 - 0:00	0.02	DRLPRO					<p>SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,354 Total SURFACE hours: 39.00 Surface Casing size: 8 7/8 # of casing joints ran: 52 Casing set MD: 2,325.0 # sx of cement: 743 Cement blend (ppg): 15.8 Cement yield (ft3/sk): 1.15 # of bbls to surface: Describe cement issues: 3 TOP OFFS Describe hole issues:</p> <p>PRODUCTION: Rig Move/Skid start date/time: 3/16/2011 7:00 Rig Move/Skid finish date/time: 3/16/2011 22:00 Total MOVE hours: 15.0 Prod Rig Spud date/time: 3/18/2011 6:00 Rig Release date/time: 40629 Total SPUD to RR hours: 210.0 Planned depth MD 10,100 Planned depth TVD 10,100 Actual MD: 10,105 Actual TVD: 10,102 Open Wells \$: \$931,260 AFE \$: \$949,147 Open wells \$/ft: \$92.16</p> <p>PRODUCTION HOLE: Prod. From depth: 2,354 Prod. To depth: 10,105 Total PROD hours: 115.5 Log Depth: 10104 Float Collar Top Depth: 10039.25 Production Casing size: 4 1/2 # of casing joints ran: 234 Casing set MD: 10,086.5 Stage 1 # sx of cement: 557/LEAD 1318/TAIL Cement density (ppg): 12.7/ LEAD 14.3/TAIL Cement yield (ft3/sk): 1.89/LEAD 1.31/TAIL Stage 2 # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Top Out Cmt # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Est. TOC (Lead & Tail) or 2 Stage : 950'/LEAD 4050/TAIL Describe cement issues: LOST PARTIAL RTURNS 120 BBL INTO DISPLACEMENT Describe hole issues:</p> <p>DIRECTIONAL INFO: KOP: 40 Max angle: 2.48 Departure: 48.80 Max dogleg MD: 1.49</p>

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Well: NBU 922-33OT			Spud Conductor: 1/19/2011				Spud Date: 2/8/2011		
Project: UTAH-UINTAH			Site: NBU 922-33OT				Rig Name No: ROYAL WELL SERVICE 1/1		
Event: COMPLETION			Start Date: 4/5/2011				End Date: 4/12/2011		
Active Datum: RKB @5,124.00ft (above Mean Sea Level)			UWI: SW/SE/0/9/S/22/E/33/0/0/26/PM/S/692/E/0/1465/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
4/7/2011	7:00 - 7:15	0.25	COMP	48		P		HSM, PRRE FRAC INTRUCTION, PRESSURE. [LOCK SURFACE CSG OPEN]	
	7:15 - 11:00	3.75	COMP	30	A	P		MIRU SUERIOR FRAC EQUIP, PRESSURE TEST SURFSCE LINES TO 9,500#, CHECK & SET POPOFF. 8,900#	
	11:00 - 18:00	7.00	COMP	36	E	P		MIRU CASED HOLE SOLUTIONS, P/U RIH W/ PERF GUN, PERF LOWER MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 9,784'-9,787' 4 SPF, 90* PH, 12 HOLES. 9,725'-9,728' 4 SPF, 90* PH, 12 HOLES. [24 HOLES]	
								FRAC STG #1] WHP=291#, BRK DN PERFS=3,941#, @=3.9 BPM, INJ RT=50.3, INJ PSI=5,832#, ISIP=3,518#, FG=.80 [PUMP'D PAD STARTED SAND ,BELT BROKE ON CAZ, WENT TO FLUSH FIXED PROBLEM, EST, RATE GOT BACK WHERE LEFT OFF], PUMP'D 2,890 BBLS SLK WTR W/ 73,840# TLC, PUMP'D, ISIP=3,770#, FG=.83, AR=49.9, AP=6,491#, MR=52.6, MP=7,416#, NPI=252#, 24/24 CALC PERFS OPEN. 100%	
								PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,183', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 9,086'-9,088' 3 SPF, 120* PH, 6 HOLES. 9,040'-9,041' 4 SPF, 90* PH, 4 HOLES. 9,007'-9,008' 4 SPF, 90* PH, 4 HOLES. 8,994'-8,995' 3 SPF, 120* PH, 3 HOLES. 8,835'-8,836' 4 SPF, 90* PH, 4 HOLES. [21 HOLES]	
								TWISTED BELT ON CAZ SHUT DOWN FOR NIGHT FOR REPAIRS.	
4/8/2011	5:30 - 5:45	0.25	COMP	48		P		HSM,	

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Well: NBU 922-33OT	Spud Conductor: 1/19/2011	Spud Date: 2/8/2011
Project: UTAH-UINTAH	Site: NBU 922-33OT	Rig Name No: ROYAL WELL SERVICE 1/1
Event: COMPLETION	Start Date: 4/5/2011	End Date: 4/12/2011
Active Datum: RKB @5,124.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/22/E/33/0/0/26/PM/S/692/E/0/1465/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	5:45 - 18:00	12.25	COMP	36	E	P		<p>FRAC STG #2 MESAVERDE 8,835'-9,088' [21 HOLES]</p> <p>FRAC STG #2] WHP=2,136#, BRK DN PERFS=3,028#, @=3.4 BPM, INJ RT=43.1, INJ PSI=5,775#, ISIP=2,655#, FG=73, PUMP'D 625 BBLs SLK WTR W/ 17,369# 30/50 MESH W/ 4,110# RESIN COAT IN TAIL W/ 21,479# TOTAL PROP PUMP'D, ISIP=3,022#, FG=78, AR=53.3, AP=5,693#, MR=56.9, MP=6,508#, NPI=367#, 17/21 CALC PERFS OPEN. 82%</p> <p>PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,747', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 8,696'-8,697' 4 SPF, 90* PH, 4 HOLES. 8,682'-8,683' 3 SPF, 120* PH, 3 HOLES. 8,652'-8,653' 3 SPF, 120* PH, 3 HOLES. 8,612'-8,613' 4 SPF, 90* PH, 4 HOLES. 8,475'-8,476' 3 SPF, 120* PH, 3 HOLES. 8,384'-8,385' 4 SPF, 90* PH, 4 HOLES. [21 HOLES]</p> <p>FRAC STG #3] WHP=535#, BRK DN PERFS=3,520#, @=3.8 BPM, INJ RT=50.3, INJ PSI=5,568#, ISIP=2,986#, FG=79, PUMP'D 824 BBLs SLK WTR W/ 25,080# 30/50 MESH W/ 5,390# RESIN COAT IN TAIL W/ 30,470# TOTAL PROP PUMP'D, ISIP=2,950#, FG=78, AR=52.2, AP=5,149#, MR=55.6, MP=6,405#, NPI=-36#, 21/21 CALC PERFS OPEN. 100%</p> <p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,102', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 8,051'-8,052' 4 SPF, 90* PH, 4 HOLES. 7,988'-7,990' 4 SPF, 90* PH, 8 HOLES. 7,878'-7,879' 4 SPF, 90* PH, 4 HOLES. 7,854'-7,855' 4 SPF, 90* PH, 4 HOLES. 7,831'-7,832' 4 SPF, 90* PH, 4 HOLES. [24 HOLES]</p> <p>FRAC STG #4] WHP=580#, BRK DN PERFS=4,319#, @=3.9 BPM, INJ RT=42, INJ PSI=5,791#, ISIP=3,194#, FG=, PUMP'D 910 BBLs SLK WTR W/ 17,424 # 30/50 MESH W/ 3724# RESIN COAT IN TAIL W/ # TOTAL PROP PUMP'D, ISIP=#, FG=, AR=, AP=#, MR=, MP=#, NPI=#, CALC PERFS OPEN.</p> <p>PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,771', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 7,729'-7,731' 3 SPF, 120* PH, 6 HOLES. 7,640'-7,642' 3 SPF, 120* PH, 6 HOLES. 7,467'-7,470' 3 SPF, 120* PH, 9 HOLES. [21 HOLES]</p> <p>FRAC STG #5] WHP=375#, BRK DN PERFS=2,685#, @=4.1 BPM, INJ RT=45.7, INJ PSI=4,969#, ISIP=2,050#, FG=71, PUMP'D 620 BBLs SLK WTR W/ 17,125# 30/50 MESH W/ 5,102# RESIN COAT IN TAIL W/ 22,227# TOTAL PROP PUMP'D, ISIP=2,715#, FG=80, AR=48.7, AP=4,689#, MR=51.3, MP=5,443#, NPI=665#, 19/21</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-33OT	Spud Conductor: 1/19/2011	Spud Date: 2/8/2011
Project: UTAH-UINTAH	Site: NBU 922-33OT	Rig Name No: ROYAL WELL SERVICE 1/1
Event: COMPLETION	Start Date: 4/5/2011	End Date: 4/12/2011
Active Datum: RKB @5,124.00ft (above Mean Sea Level)	UWI: SW/SE/0/9/S/22/E/33/0/0/26/PM/S/692/E/0/1465/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								<p>CALC PERFS OPEN. 89%</p> <p>PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,435', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 7,404'-7,405' 4 SPF, 90* PH, 4 HOLES. 7,366'-7,368' 4 SPF, 90* PH, 8 HOLES. 7,336'-7,338' 3 SPF, 120* PH, 6 HOLES. 7,283'-7,284' 4 SPF, 90* PH, 4 HOLES. [22 HOLES]</p> <p>FRAC STG #6] WHP=472#, BRK DN PERFS=2,715#, @=4.2 BPM, INJ RT=42.2, INJ PSI=4,930#, ISIP=2,367#, FG=.76, PUMP'D 650 BBLS SLK WTR W/ 17,702# 30/50 MESH W/ 5,121# RESIN COAT IN TAIL W/ 22,823# TOTAL PROP PUMP'D, ISIP=2,612#, FG=.79, AR=28.7, AP=2,949#, MR=53.4, MP=5,574#, NPI=245# 84% CALC PERFS OPEN. 84%</p> <p>PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,143', PERF MESAVERDE / WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 7,090'-7,093' 4 SPF, 90* PH, 12 HOLES. 6,942'-6,944' 4 SPF, 90* PH, 8 HOLES. WASATCH 6,870'-6,871' 4 SPF, 90* PH, 4 HOLES. WASATCH [24 HOLES]</p> <p>FRAC STG #7] WHP=360#, BRK DN PERFS=1,946#, @=3.6 BPM, INJ RT=52.2, INJ PSI=4,180#, ISIP=1,659#, FG=.67, PUMP'D 1,344 BBLS SLK WTR W/ 48,000# 30/50 MESH W/ 5,909# RESIN COAT IN TAIL W/ 53,909# TOTAL PROP PUMP'D, ISIP=1,986#, FG=.72, AR=51.4, AP=4,203#, MR=52.9, MP=5,049#, NPI=396#, 24/24 CALC PERFS OPEN. 100%</p> <p>P/U RIH W/ HALIBURTON 8K CBP FOR TOP KILL, SET @=6,820'</p> <p>7,863 TOTAL BBLS 245,896# TOTAL SAND 768 GALS SCALE INHIB 190 GALS BIOCIDE HSM & JSA W/ROYAL WELL SERVICE</p>
4/11/2011	6:45 - 7:00	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-33OT		Spud Conductor: 1/19/2011	Spud Date: 2/8/2011
Project: UTAH-UINTAH	Site: NBU 922-33OT		Rig Name No: ROYAL WELL SERVICE 1/1
Event: COMPLETION	Start Date: 4/5/2011	End Date: 4/12/2011	
Active Datum: RKB @5,124.00ft (above Mean Sea Level)		UWI: SW/SE/0/9/S/22/E/33/0/0/26/PM/S/692/E/0/1465/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 15:00	8.00	COMP	30	A	P		ROAD RIG FROM NBU 922-33IT. MIRU - SPOT EQUIP. WHP = 0 PSI. NDFV, NU BOP. RU FLOOR & TBG EQUIP. PREP & TALLY TBG. PU BIT, POBS & XN NIPPLE. RIH ON 216 JTS NEW 2 3/8" 4.7# J55 TBG. TAG FILL @ 6817'. RU PWR SWVL & PMP. EST CIRC & PT BOP TO 3000 PSI. C/O 3' OF SND. CBP #1) DRLG OUT HALCO 8K CBP @ 6820' IN 7 MIN. 150 DIFF PSI. RIH TAG FILL @ 7091. C/O 59 OF SDN. FCP = 10 PSI. CBP #2) DRLG OUT HALCO 8K CBP @ 7150' IN 8 MIN. 100 DIFF PSI. RIH TAG FILL @ 7402. C/O 33 OF SDN. FCP = 120 PSI. CBP #3) DRLG OUT HALCO 8K CBP @ 7435' IN 11 MIN. 75 DIFF PSI. RIH W/JTS. CIRC WELL CLEAN. FCP = 130 PSI. SWI. SDFN. EOT @ 7480'. PREP TO CONT. TO DRLG CBPs IN AM. HSM & JSA W/ROYAL WELL SERVICE. 4/12/2011 6:45 - 7:00 0.25 COMP 48 P 7:00 - 13:00 6.00 COMP 44 C P WHP = 750 PSI. EOT @ 7480'. RIH TAG FILL @ 7732'. C/O 39' OF SND. CBP #4) DRLG OUT HALCO 8K CBP @ 7771' IN 9 MIN. 0 DIFF PSI. RIH TAG FILL @ 8039. C/O 63 OF SDN. FCP = 220 PSI. CBP #5) DRLG OUT HALCO 8K CBP @ 8102' IN 9 MIN. 300 DIFF PSI. RIH TAG FILL @ 8702. C/O 45 OF SDN. FCP = 350 PSI. CBP #6) DRLG OUT HALCO 8K CBP @ 8747' IN 9 MIN. 100 DIFF PSI. RIH TAG FILL @ 9065. C/O 73 OF SDN. FCP = 330 PSI. CBP #7) DRLG OUT HALCO 8K CBP @ 9138 IN 7 MIN. 500 DIFF PSI. RIH & TAG FILL @ 9867'. C/O TO 9986. (119' OF SND) PBTD @ 10,039. FCP = 360 PSI. CIRC WELL CLEAN. ND PWR SWVL, NU TBG EQUIP. LD 14 JTS ON FLOAT, (21 TOTAL ON FLAOT). LND TBG ON HNGR W/301 JTS NEW 2 3/8" 4.7# L80. RD FLOOR & TBG EQUIP. ND BOP, DROP BALL, NUWH. PMP OFF BIT @ 1100 PSI. WAIT 30 MIN FOR BIT TO FALL TO BTM. TURN WELL TO F.B.C. KB 18' HANGER 0.83' XN NIPPLE 1.33' TBG 301 JTS = 9528.08' XN NIPPLE @ 9530.24' EOT @ 9531.34' (322 JTS DLVRD - 21 JTS RTND) TWTR = 7,986 BBLS TWR = 1775 BBLS TWLTR = 6211 SICP = 1925 PSI, SITP = 000 PSI. 13:30 - 13:30 0.00 PROD 50 WELL TURNED TO SALES @ 1330 HR ON 4/12/11 - 1000 MCFD, 1920 BWPD, FTP 500#, CP 2250#, CK 20/64"

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-33OT			Spud Conductor: 1/19/2011			Spud Date: 2/8/2011			
Project: UTAH-UINTAH			Site: NBU 922-33OT				Rig Name No: ROYAL WELL SERVICE 1/1		
Event: COMPLETION			Start Date: 4/5/2011				End Date: 4/12/2011		
Active Datum: RKB @5,124.00ft (above Mean Sea Level)				UWI: SW/SE/0/9/S/22/E/33/0/0/26/PM/S/692/E/0/1465/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
4/13/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2925#, TP 2300#, 20/64" CK, 48 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 2737 BBLS LEFT TO RECOVER: 5249	
4/14/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2750#, TP 2075#, 20/64" CK, 40 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 3812 BBLS LEFT TO RECOVER: 4174	
4/15/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2550#, TP 1900#, 20/64" CK, 28 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 4584 BBLS LEFT TO RECOVER: 3402	
4/16/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2475#, TP 1750#, 20/64" CK, 20 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 5118 BBLS LEFT TO RECOVER: 2868	

WELL DETAILS: NBU 922-330T

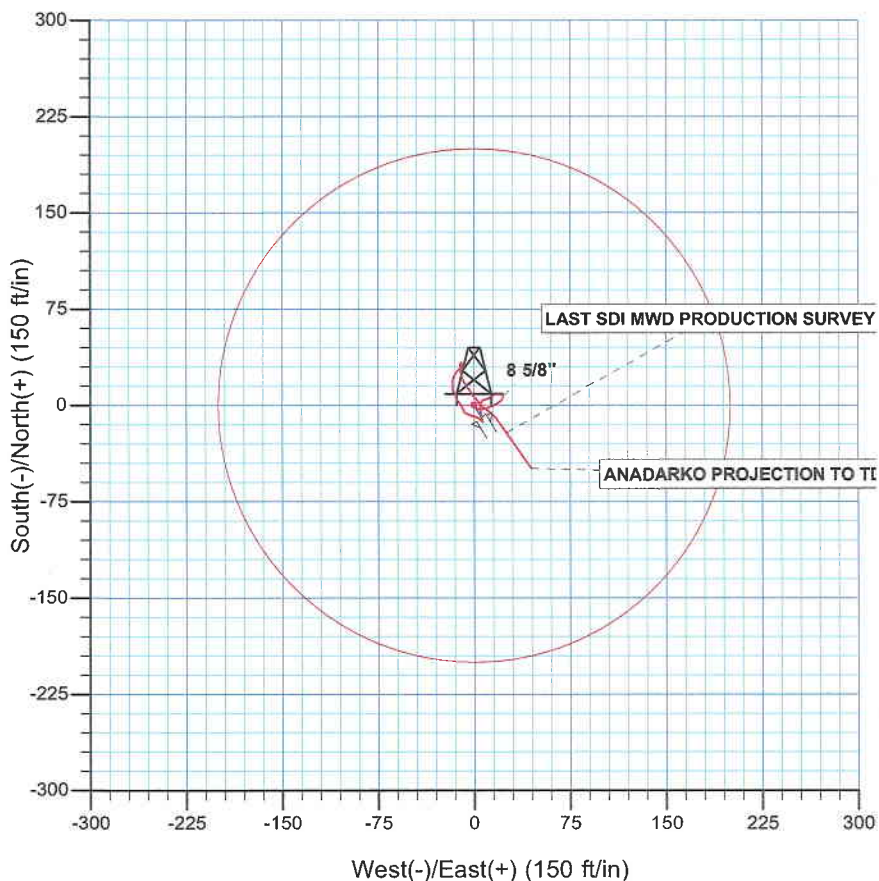
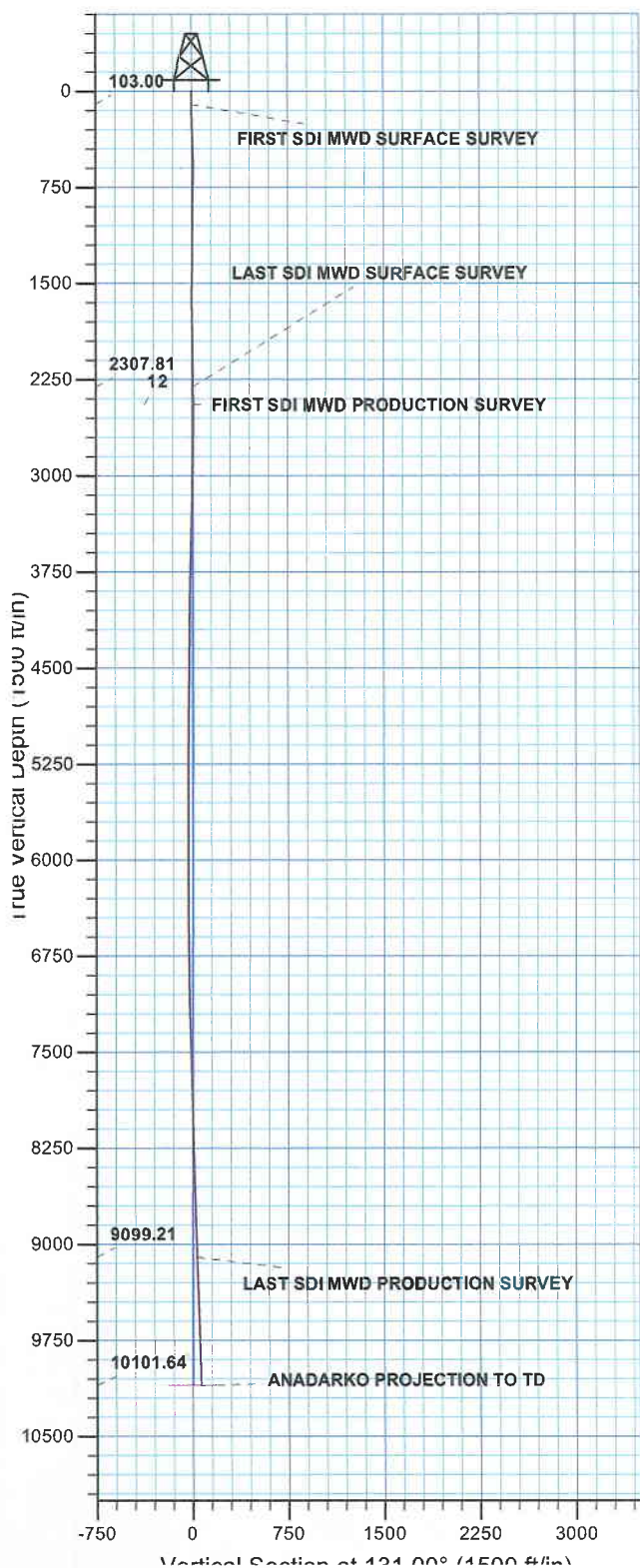
GL 5206' & KB 18' @ 5124.00ft (PIONEER 69)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14525205.17	2077365.95	39° 59' 13.909 N	109° 26' 24.421 W



Azimuths to True North
Magnetic North: 11.10°

Magnetic Field
Strength: 52366.1nT
Dip Angle: 65.88°
Date: 01/31/2011
Model: IGRF2010



PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 33 T9S R22E
System Datum: Mean Sea Level

Design: OH (NBU 922-330T/OH)

Created By: Robert Scott Date: 0-29 April 2014



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 922-33OT
NBU 922-33OT

OH

Design: OH

Standard Survey Report

13 April, 2011



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-33OT
Well: NBU 922-33OT
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-33OT
TVD Reference: GL 5206' & KB 18' @ 5124.00ft (PIONEER 69)
MD Reference: GL 5206' & KB 18' @ 5124.00ft (PIONEER 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Project Uintah County, UT UTM12
Map System: Universal Transverse Mercator (US Survey Feet) **System Datum:** Mean Sea Level
Geo Datum: NAD 1927 - Western US
Map Zone: Zone 12N (114 W to 108 W)

Site NBU 922-33OT, SECTION 33 T9S R22E
Site Position: **Northing:** 14,525,205.17 usft **Latitude:** 39° 59' 13.909 N
From: Lat/Long **Easting:** 2,077,365.94 usft **Longitude:** 109° 26' 24.421 W
Position Uncertainty: 0.00 ft **Slot Radius:** 13.200 in **Grid Convergence:** 1.00 °

Well NBU 922-33OT, 692' FSL 1465' FEL
Well Position **+N/-S** 0.00 ft **Northing:** 14,525,205.17 usft **Latitude:** 39° 59' 13.909 N
+E/-W 0.00 ft **Easting:** 2,077,365.94 usft **Longitude:** 109° 26' 24.421 W
Position Uncertainty 0.00 ft **Wellhead Elevation:** ft **Ground Level:** 5,106.00 ft

Wellbore OH
Magnetics **Model Name** **Sample Date** **Declination (°)** **Dip Angle (°)** **Field Strength (nT)**
 IGRF2010 01/31/2011 11.10 65.88 52,366

Design OH
Audit Notes:
Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00
Vertical Section: **Depth From (TVD) (ft)** **+N/-S (ft)** **+E/-W (ft)** **Direction (°)**
 0.00 0.00 0.00 131.00

Survey Program **Date** 04/13/2011

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
14.00	2,309.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1
2,445.00	9,102.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1
10,105.00	10,105.00	Survey #3 ANADARKO PROJECTION (OH)	MWD SDI	MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00
103.00	0.85	155.21	103.00	-0.60	0.28	0.60	0.96	0.96	0.00
FIRST SDI MWD SURFACE SURVEY									
162.00	0.78	155.22	161.99	-1.36	0.63	1.37	0.12	-0.12	0.02
248.00	1.31	127.17	247.98	-2.49	1.66	2.88	0.84	0.62	-32.62
363.00	3.40	84.24	362.88	-2.94	6.10	6.53	2.26	1.82	-37.33
454.00	4.93	69.30	453.64	-1.29	12.44	10.23	2.05	1.68	-16.42
544.00	4.36	57.00	543.35	1.94	18.93	13.01	1.27	-0.63	-13.67

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-33OT
Well: NBU 922-33OT
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-33OT
TVD Reference: GL 5206' & KB 18' @ 5124.00ft (PIONEER 69)
MD Reference: GL 5206' & KB 18' @ 5124.00ft (PIONEER 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
634.00	2.33	25.68	633.19	5.46	22.59	13.47	2.96	-2.26	-34.80
724.00	1.42	308.17	723.16	7.80	22.51	11.87	2.72	-1.01	-86.12
814.00	2.11	280.13	813.12	8.78	20.00	9.34	1.21	0.77	-31.16
904.00	1.61	256.37	903.07	8.77	17.14	7.18	1.01	-0.56	-26.40
994.00	1.47	238.97	993.04	7.88	14.92	6.09	0.54	-0.16	-19.33
1,084.00	0.99	234.07	1,083.02	6.83	13.30	5.56	0.55	-0.53	-5.44
1,174.00	0.84	221.97	1,173.00	5.88	12.23	5.38	0.27	-0.17	-13.44
1,264.00	0.69	244.43	1,263.00	5.15	11.30	5.15	0.37	-0.17	24.96
1,354.00	0.82	262.96	1,352.99	4.84	10.17	4.50	0.31	0.14	20.59
1,444.00	0.76	259.21	1,442.98	4.65	8.95	3.70	0.09	-0.07	-4.17
1,534.00	0.81	247.41	1,532.97	4.29	7.78	3.05	0.19	0.06	-13.11
1,624.00	1.45	232.48	1,622.95	3.36	6.28	2.54	0.78	0.71	-16.59
1,714.00	1.39	197.77	1,712.93	1.62	5.05	2.74	0.94	-0.07	-38.57
1,804.00	1.54	182.47	1,802.90	-0.62	4.66	3.93	0.46	0.17	-17.00
1,894.00	1.04	175.47	1,892.88	-2.65	4.68	5.26	0.58	-0.56	-7.78
1,984.00	1.04	168.52	1,982.86	-4.26	4.90	6.50	0.14	0.00	-7.72
2,074.00	1.38	172.94	2,072.84	-6.14	5.20	7.95	0.39	0.38	4.91
2,164.00	0.84	158.97	2,162.82	-7.83	5.57	9.34	0.67	-0.60	-15.52
2,254.00	0.78	169.25	2,252.82	-9.05	5.92	10.40	0.17	-0.07	11.42
2,309.00	0.71	172.66	2,307.81	-9.75	6.03	10.95	0.15	-0.13	6.20
LAST SDI MWD SURFACE SURVEY									
2,445.00	0.83	167.90	2,443.80	-11.55	6.35	12.37	0.10	0.09	-3.50
FIRST SDI MWD PRODUCTION SURVEY									
2,508.00	1.06	164.73	2,506.79	-12.56	6.60	13.22	0.37	0.37	-5.03
2,603.00	0.37	325.81	2,601.79	-13.15	6.65	13.65	1.49	-0.73	169.56
2,698.00	0.87	325.47	2,696.78	-12.31	6.07	12.66	0.53	0.53	-0.36
2,793.00	1.85	312.44	2,791.75	-10.68	4.53	10.43	1.08	1.03	-13.72
2,887.00	1.42	285.91	2,885.72	-9.33	2.29	7.85	0.91	-0.46	-28.22
2,982.00	1.34	286.19	2,980.69	-8.70	0.09	5.78	0.08	-0.08	0.29
3,077.00	1.17	281.72	3,075.66	-8.19	-1.92	3.92	0.21	-0.18	-4.71
3,172.00	1.75	299.51	3,170.63	-7.28	-4.13	1.66	0.77	0.61	18.73
3,267.00	1.02	278.13	3,265.61	-6.45	-6.23	-0.47	0.93	-0.77	-22.51
3,361.00	1.37	325.14	3,359.59	-5.41	-7.70	-2.27	1.07	0.37	50.01
3,456.00	1.51	345.30	3,454.56	-3.27	-8.67	-4.40	0.55	0.15	21.22
3,551.00	2.48	328.63	3,549.50	-0.30	-10.06	-7.40	1.18	1.02	-17.55
3,646.00	1.74	320.20	3,644.44	2.56	-12.05	-10.78	0.84	-0.78	-8.87
3,741.00	0.61	290.97	3,739.41	3.85	-13.45	-12.68	1.31	-1.19	-30.77
3,836.00	0.72	0.37	3,834.41	4.63	-13.92	-13.54	0.80	0.12	73.05
3,931.00	1.71	353.76	3,929.39	6.64	-14.07	-14.97	1.05	1.04	-6.96
4,025.00	1.06	350.65	4,023.36	8.89	-14.36	-16.67	0.70	-0.69	-3.31
4,120.00	0.84	291.59	4,118.35	10.01	-15.15	-18.00	1.01	-0.23	-62.17
4,215.00	0.74	301.22	4,213.34	10.59	-16.32	-19.26	0.17	-0.11	10.14
4,310.00	1.24	5.57	4,308.33	11.93	-16.75	-20.46	1.20	0.53	67.74
4,405.00	0.55	3.97	4,403.31	13.41	-16.62	-21.33	0.73	-0.73	-1.68

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-33OT
Well: NBU 922-33OT
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-33OT
TVD Reference: GL 5206' & KB 18' @ 5124.00ft (PIONEER 69)
MD Reference: GL 5206' & KB 18' @ 5124.00ft (PIONEER 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-Roberts-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,500.00	1.22	354.26	4,498.30	14.87	-16.69	-22.35	0.72	0.71	-10.22
4,592.00	1.23	0.72	4,590.28	16.83	-16.77	-23.70	0.15	0.01	7.02
4,687.00	1.07	3.09	4,685.26	18.73	-16.71	-24.90	0.18	-0.17	2.49
4,939.00	0.48	25.82	4,937.24	22.03	-16.12	-26.62	0.26	-0.23	9.02
5,192.00	1.51	31.76	5,190.20	25.82	-13.91	-27.44	0.41	0.41	2.35
5,445.00	0.53	82.92	5,443.16	28.80	-10.99	-27.19	0.49	-0.39	20.22
5,697.00	0.61	27.47	5,695.15	30.13	-9.22	-26.72	0.21	0.03	-22.00
5,944.00	0.56	340.33	5,942.14	32.44	-9.02	-28.08	0.19	-0.02	-19.09
6,200.00	0.24	244.37	6,198.13	33.38	-9.92	-29.39	0.25	-0.13	-37.48
6,445.00	0.38	206.11	6,443.13	32.43	-10.74	-29.38	0.10	0.06	-15.62
6,703.00	0.66	177.57	6,701.12	30.18	-11.05	-28.14	0.14	0.11	-11.06
6,962.00	1.44	171.87	6,960.07	25.47	-10.53	-24.65	0.30	0.30	-2.20
7,214.00	1.63	153.30	7,211.98	19.13	-8.47	-18.94	0.21	0.08	-7.37
7,532.00	1.88	140.29	7,529.84	11.08	-3.11	-9.61	0.15	0.08	-4.09
7,716.00	1.56	151.06	7,713.75	6.56	0.03	-4.28	0.25	-0.17	5.85
8,028.00	1.72	131.67	8,025.63	-0.27	5.59	4.39	0.18	0.05	-6.21
8,343.00	0.97	119.63	8,340.54	-4.73	11.43	11.73	0.25	-0.24	-3.82
8,671.00	1.85	141.77	8,668.44	-10.26	17.12	19.65	0.31	0.27	6.75
8,988.00	1.85	145.64	8,985.27	-18.50	23.18	29.63	0.04	0.00	1.22
9,102.00	1.93	144.94	9,099.21	-21.59	25.32	33.28	0.07	0.07	-0.61

LAST SDI MWD PRODUCTION SURVEY

10,105.00	1.93	144.94	10,101.64	-49.24	44.72	66.06	0.00	0.00	0.00
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ANADARKO PROJECTION TO TD
Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
103.00	103.00	-0.60	0.28	FIRST SDI MWD SURFACE SURVEY
2,309.00	2,307.81	-9.75	6.03	LAST SDI MWD SURFACE SURVEY
2,445.00	2,443.80	-11.55	6.35	FIRST SDI MWD PRODUCTION SURVEY
9,102.00	9,099.21	-21.59	25.32	LAST SDI MWD PRODUCTION SURVEY
10,105.00	10,101.64	-49.24	44.72	ANADARKO PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

NBU 922-33OT

NBU 922-33OT

OH

Design: OH

Survey Report - Geographic

13 April, 2011

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-33OT
Well: NBU 922-33OT
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-33OT
TVD Reference: GL 5206' & KB 18' @ 5124.00ft (PIONEER 69)
MD Reference: GL 5206' & KB 18' @ 5124.00ft (PIONEER 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 922-33OT, SECTION 33 T9S R22E				
Site Position:		Northing:	14,525,205.17 usft	Latitude:	39° 59' 13.909 N
From:	Lat/Long	Easting:	2,077,365.94 usft	Longitude:	109° 26' 24.421 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	1.00 °

Well	NBU 922-33OT, 692' FSL 1465' FEL				
Well Position	+N/-S	0.00 ft	Northing:	14,525,205.17 usft	Latitude: 39° 59' 13.909 N
	+E/-W	0.00 ft	Easting:	2,077,365.94 usft	Longitude: 109° 26' 24.421 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level: 5,106.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	01/31/2011	11.10	65.88	52,366

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	131.00	

Survey Program	Date 04/13/2011				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
14.00	2,309.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,445.00	9,102.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	
10,105.00	10,105.00	Survey #3 ANADARKO PROJECTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,525,205.17	2,077,365.94	39° 59' 13.909 N	109° 26' 24.421 W
14.00	0.00	0.00	14.00	0.00	0.00	14,525,205.17	2,077,365.94	39° 59' 13.909 N	109° 26' 24.421 W
103.00	0.85	155.21	103.00	-0.60	0.28	14,525,204.58	2,077,366.23	39° 59' 13.903 N	109° 26' 24.418 W
FIRST SDI MWD SURFACE SURVEY									
162.00	0.78	155.22	161.99	-1.36	0.63	14,525,203.82	2,077,366.59	39° 59' 13.896 N	109° 26' 24.413 W
248.00	1.31	127.17	247.98	-2.49	1.66	14,525,202.71	2,077,367.64	39° 59' 13.885 N	109° 26' 24.400 W
363.00	3.40	84.24	362.88	-2.94	6.10	14,525,202.34	2,077,372.09	39° 59' 13.880 N	109° 26' 24.343 W
454.00	4.93	69.30	453.64	-1.29	12.44	14,525,204.10	2,077,378.40	39° 59' 13.896 N	109° 26' 24.261 W
544.00	4.36	57.00	543.35	1.94	18.93	14,525,207.45	2,077,384.83	39° 59' 13.928 N	109° 26' 24.178 W
634.00	2.33	25.68	633.19	5.46	22.59	14,525,211.02	2,077,388.43	39° 59' 13.963 N	109° 26' 24.131 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-33OT
Well: NBU 922-33OT
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-33OT
TVD Reference: GL 5206' & KB 18' @ 5124.00ft (PIONEER 69)
MD Reference: GL 5206' & KB 18' @ 5124.00ft (PIONEER 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
724.00	1.42	308.17	723.16	7.80	22.51	14,525,213.36	2,077,388.31	39° 59' 13.986 N	109° 26' 24.132 W	
814.00	2.11	280.13	813.12	8.78	20.00	14,525,214.30	2,077,385.79	39° 59' 13.996 N	109° 26' 24.164 W	
904.00	1.61	256.37	903.07	8.77	17.14	14,525,214.24	2,077,382.93	39° 59' 13.996 N	109° 26' 24.201 W	
994.00	1.47	238.97	993.04	7.88	14.92	14,525,213.31	2,077,380.72	39° 59' 13.987 N	109° 26' 24.229 W	
1,084.00	0.99	234.07	1,083.02	6.83	13.30	14,525,212.23	2,077,379.12	39° 59' 13.977 N	109° 26' 24.250 W	
1,174.00	0.84	221.97	1,173.00	5.88	12.23	14,525,211.26	2,077,378.07	39° 59' 13.967 N	109° 26' 24.264 W	
1,264.00	0.69	244.43	1,263.00	5.15	11.30	14,525,210.52	2,077,377.15	39° 59' 13.960 N	109° 26' 24.276 W	
1,354.00	0.82	262.96	1,352.99	4.84	10.17	14,525,210.19	2,077,376.03	39° 59' 13.957 N	109° 26' 24.290 W	
1,444.00	0.76	259.21	1,442.98	4.65	8.95	14,525,209.98	2,077,374.81	39° 59' 13.955 N	109° 26' 24.306 W	
1,534.00	0.81	247.41	1,532.97	4.29	7.78	14,525,209.60	2,077,373.64	39° 59' 13.952 N	109° 26' 24.321 W	
1,624.00	1.45	232.48	1,622.95	3.36	6.28	14,525,208.64	2,077,372.17	39° 59' 13.942 N	109° 26' 24.340 W	
1,714.00	1.39	197.77	1,712.93	1.62	5.05	14,525,206.88	2,077,370.96	39° 59' 13.925 N	109° 26' 24.356 W	
1,804.00	1.54	182.47	1,802.90	-0.62	4.66	14,525,204.63	2,077,370.62	39° 59' 13.903 N	109° 26' 24.361 W	
1,894.00	1.04	175.47	1,892.88	-2.65	4.68	14,525,202.61	2,077,370.66	39° 59' 13.883 N	109° 26' 24.361 W	
1,984.00	1.04	168.52	1,982.86	-4.26	4.90	14,525,201.00	2,077,370.92	39° 59' 13.867 N	109° 26' 24.358 W	
2,074.00	1.38	172.94	2,072.84	-6.14	5.20	14,525,199.13	2,077,371.25	39° 59' 13.849 N	109° 26' 24.354 W	
2,164.00	0.84	158.97	2,162.82	-7.83	5.57	14,525,197.44	2,077,371.65	39° 59' 13.832 N	109° 26' 24.350 W	
2,254.00	0.78	169.25	2,252.82	-9.05	5.92	14,525,196.23	2,077,372.02	39° 59' 13.820 N	109° 26' 24.345 W	
2,309.00	0.71	172.66	2,307.81	-9.75	6.03	14,525,195.53	2,077,372.14	39° 59' 13.813 N	109° 26' 24.344 W	
LAST SDI MWD SURFACE SURVEY										
2,445.00	0.83	167.90	2,443.80	-11.55	6.35	14,525,193.73	2,077,372.49	39° 59' 13.795 N	109° 26' 24.340 W	
FIRST SDI MWD PRODUCTION SURVEY										
2,508.00	1.06	164.73	2,506.79	-12.56	6.60	14,525,192.73	2,077,372.76	39° 59' 13.785 N	109° 26' 24.336 W	
2,603.00	0.37	325.81	2,601.79	-13.15	6.65	14,525,192.14	2,077,372.83	39° 59' 13.779 N	109° 26' 24.336 W	
2,698.00	0.87	325.47	2,696.78	-12.31	6.07	14,525,192.98	2,077,372.23	39° 59' 13.788 N	109° 26' 24.343 W	
2,793.00	1.85	312.44	2,791.75	-10.68	4.53	14,525,194.58	2,077,370.66	39° 59' 13.804 N	109° 26' 24.363 W	
2,887.00	1.42	285.91	2,885.72	-9.33	2.29	14,525,195.88	2,077,368.40	39° 59' 13.817 N	109° 26' 24.392 W	
2,982.00	1.34	286.19	2,980.69	-8.70	0.09	14,525,196.47	2,077,366.19	39° 59' 13.823 N	109° 26' 24.420 W	
3,077.00	1.17	281.72	3,075.66	-8.19	-1.92	14,525,196.95	2,077,364.16	39° 59' 13.828 N	109° 26' 24.446 W	
3,172.00	1.75	299.51	3,170.63	-7.28	-4.13	14,525,197.82	2,077,361.94	39° 59' 13.837 N	109° 26' 24.474 W	
3,267.00	1.02	278.13	3,265.61	-6.45	-6.23	14,525,198.62	2,077,359.82	39° 59' 13.845 N	109° 26' 24.501 W	
3,361.00	1.37	325.14	3,359.59	-5.41	-7.70	14,525,199.63	2,077,358.33	39° 59' 13.856 N	109° 26' 24.520 W	
3,456.00	1.51	345.30	3,454.56	-3.27	-8.67	14,525,201.76	2,077,357.33	39° 59' 13.877 N	109° 26' 24.533 W	
3,551.00	2.48	328.63	3,549.50	-0.30	-10.06	14,525,204.70	2,077,355.89	39° 59' 13.906 N	109° 26' 24.550 W	
3,646.00	1.74	320.20	3,644.44	2.56	-12.05	14,525,207.52	2,077,353.85	39° 59' 13.935 N	109° 26' 24.576 W	
3,741.00	0.61	290.97	3,739.41	3.85	-13.45	14,525,208.79	2,077,352.43	39° 59' 13.947 N	109° 26' 24.594 W	
3,836.00	0.72	0.37	3,834.41	4.63	-13.92	14,525,209.56	2,077,351.95	39° 59' 13.955 N	109° 26' 24.600 W	
3,931.00	1.71	353.76	3,929.39	6.64	-14.07	14,525,211.56	2,077,351.76	39° 59' 13.975 N	109° 26' 24.602 W	
4,025.00	1.06	350.65	4,023.36	8.89	-14.36	14,525,213.81	2,077,351.43	39° 59' 13.997 N	109° 26' 24.606 W	
4,120.00	0.84	291.59	4,118.35	10.01	-15.15	14,525,214.92	2,077,350.62	39° 59' 14.008 N	109° 26' 24.616 W	
4,215.00	0.74	301.22	4,213.34	10.59	-16.32	14,525,215.47	2,077,349.44	39° 59' 14.014 N	109° 26' 24.631 W	
4,310.00	1.24	5.57	4,308.33	11.93	-16.75	14,525,216.80	2,077,348.99	39° 59' 14.027 N	109° 26' 24.636 W	
4,405.00	0.55	3.97	4,403.31	13.41	-16.62	14,525,218.28	2,077,349.10	39° 59' 14.042 N	109° 26' 24.635 W	
4,500.00	1.22	354.26	4,498.30	14.87	-16.69	14,525,219.74	2,077,349.00	39° 59' 14.056 N	109° 26' 24.636 W	
4,592.00	1.23	0.72	4,590.28	16.83	-16.77	14,525,221.70	2,077,348.88	39° 59' 14.076 N	109° 26' 24.637 W	
4,687.00	1.07	3.09	4,685.26	18.73	-16.71	14,525,223.61	2,077,348.91	39° 59' 14.094 N	109° 26' 24.636 W	
4,939.00	0.48	25.82	4,937.24	22.03	-16.12	14,525,226.92	2,077,349.44	39° 59' 14.127 N	109° 26' 24.628 W	
5,192.00	1.51	31.76	5,190.20	25.82	-13.91	14,525,230.75	2,077,351.59	39° 59' 14.164 N	109° 26' 24.600 W	
5,445.00	0.53	82.92	5,443.16	28.80	-10.99	14,525,233.78	2,077,354.45	39° 59' 14.194 N	109° 26' 24.562 W	
5,697.00	0.61	27.47	5,695.15	30.13	-9.22	14,525,235.14	2,077,356.20	39° 59' 14.207 N	109° 26' 24.540 W	
5,944.00	0.56	340.33	5,942.14	32.44	-9.02	14,525,237.45	2,077,356.36	39° 59' 14.230 N	109° 26' 24.537 W	
6,200.00	0.24	244.37	6,198.13	33.38	-9.92	14,525,238.38	2,077,355.44	39° 59' 14.239 N	109° 26' 24.549 W	
6,445.00	0.38	206.11	6,443.13	32.43	-10.74	14,525,237.41	2,077,354.64	39° 59' 14.230 N	109° 26' 24.559 W	
6,703.00	0.66	177.57	6,701.12	30.18	-11.05	14,525,235.15	2,077,354.36	39° 59' 14.207 N	109° 26' 24.563 W	
6,962.00	1.44	171.87	6,960.07	25.47	-10.53	14,525,230.45	2,077,354.97	39° 59' 14.161 N	109° 26' 24.557 W	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 922-33OT
Well: NBU 922-33OT
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 922-33OT
TVD Reference: GL 5206' & KB 18' @ 5124.00ft (PIONEER 69)
MD Reference: GL 5206' & KB 18' @ 5124.00ft (PIONEER 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-Roberts-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,214.00	1.63	153.30	7,211.98	19.13	-8.47	14,525,224.15	2,077,357.14	39° 59' 14.098 N	109° 26' 24.530 W
7,532.00	1.88	140.29	7,529.84	11.08	-3.11	14,525,216.19	2,077,362.64	39° 59' 14.019 N	109° 26' 24.461 W
7,716.00	1.56	151.06	7,713.75	6.56	0.03	14,525,211.74	2,077,365.86	39° 59' 13.974 N	109° 26' 24.421 W
8,028.00	1.72	131.67	8,025.63	-0.27	5.59	14,525,205.00	2,077,371.53	39° 59' 13.907 N	109° 26' 24.349 W
8,343.00	0.97	119.63	8,340.54	-4.73	11.43	14,525,200.65	2,077,377.46	39° 59' 13.862 N	109° 26' 24.274 W
8,671.00	1.85	141.77	8,668.44	-10.26	17.12	14,525,195.21	2,077,383.24	39° 59' 13.808 N	109° 26' 24.201 W
8,988.00	1.85	145.64	8,985.27	-18.50	23.18	14,525,187.08	2,077,389.44	39° 59' 13.726 N	109° 26' 24.123 W
9,102.00	1.93	144.94	9,099.21	-21.59	25.32	14,525,184.03	2,077,391.64	39° 59' 13.696 N	109° 26' 24.096 W
LAST SDI MWD PRODUCTION SURVEY									
10,105.00	1.93	144.94	10,101.64	-49.24	44.72	14,525,156.72	2,077,411.52	39° 59' 13.422 N	109° 26' 23.847 W
ANADARKO PROJECTION TO TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
103.00	103.00	-0.60	0.28	FIRST SDI MWD SURFACE SURVEY
2,309.00	2,307.81	-9.75	6.03	LAST SDI MWD SURFACE SURVEY
2,445.00	2,443.80	-11.55	6.35	FIRST SDI MWD PRODUCTION SURVEY
9,102.00	9,099.21	-21.59	25.32	LAST SDI MWD PRODUCTION SURVEY
10,105.00	10,101.64	-49.24	44.72	ANADARKO PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-33OT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0692 FSL 1465 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 33 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047401860000
PHONE NUMBER: 720 929-6456		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/1/2016	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <input type="text" value="WORKOVER"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. A WELLBORE CLEANOUT HAS BEEN COMPLETED ON THE NBU 922-33OT WELL. PLEASE SEE THE ATTACHED OPERATIONS SUMMARY REPORT FOR DETAILS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 28, 2016		
NAME (PLEASE PRINT) Candice Barber	PHONE NUMBER 435 781-9749	TITLE HSE Representative
SIGNATURE N/A	DATE 11/11/2016	

US ROCKIES REGION

Operation Summary Report

Well: NBU 922-33OT		Spud Conductor: 1/19/2011		Spud date: 2/8/2011	
Project: UTAH-UINTAH		Site: NBU 922-33OT			Rig name no.: MILES 2/2
Event: WELL WORK EXPENSE		Start date: 10/27/2016		End date: 11/1/2016	
Active datum: RKB @5,124.00usft (above Mean Sea Level)			UWI: SW/SE/0/9/S/22/E/33/0/0/26/PM/S/692/E/0/1465/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
9/28/2016	7:00 - 11:00	4.00	MAINT	35		P		WELL NAME: NBU Job Code: 80012176 WINS #: 922-33OT ZID: vmv004 FOREMAN: V4-Jason Hackford MECHANICAL: Craig Massey SLICKLINE COMPANY C&S SLICKLINE OPERATOR Daniel Clark TEL.NUMBER: 828-4307 DATE: 9/28/2016 Ex. mm/dd/yy JOB DESCRIPTION Fill out JSA, drive to location, conduct tailgate safety mtg, rig up and check pressures, RIH to 9519', can't latch SV, POOH and check tools, RIH and beat down, can not get latched, POOH, some trash in JDC tool FLUID LEVEL 200 SEAT NIPPLE DEPTH 9519 HELD JSA W/RIG CREW.
10/27/2016	7:00 - 7:30	0.50	MAINT	48	B	P		
	7:30 - 9:00	1.50	MAINT	31	F	P		SITP 1300 PSIG. CP 1300 PSIG. BLOW WELL DOWN. PUMP 20 BBLS TMAX DOWN TBG. 30 BBLS DOWN ANNULAS. ND TREE. TBG STUCK. REMOVE TBH INSTALL 2 3/8" L-80 PUP JT UNDER TBH & RELAND. NU BOP.
	9:00 - 13:00	4.00	MAINT	35	F	P		MIRU DELSCO. RIH SET TBG STOP @ 8930' POH. RIH SET PLUG @ 8930'. POH RDSL.
	13:00 - 14:00	1.00	MAINT	37	A	P		MIRU CUTTERS WL. RIH W/1-9/16" OD PERF GUN. TAG @ 8990'. PRESSURE ON TBG TO 2000 PSIG. PERF 4 HOLES IN TBG @ 8889'-90'. LOST ALL PSIG ON TBG. CONTINUE PUMPING WHILE PERFING 4 HOLES @ 8883' - 8884'. POH RDWL.
	14:00 - 14:30	0.50	MAINT	31	F	P		MIRU NALCO. PUMP 266 GAL 15% HCL W/BUFFER, SOLVENT, AND DIPERSANT & BIOSIDE. FLUSH W/34 BBLS TMAX. WORK STUCK TBG 20K - 90 K W/NO GAIN.
	14:30 - 17:00	2.50	MAINT	35	H	P		RUSL. RIH W/JDC UNABLE TO LATCH PLUG. SLICK LINE POH TO 2000'. H2S GAS UP ANNULAS TO FLOW BACK TANK 60 PPM @ WELL HEAD. CLEAR LOC. WAIT ON SAFTEY TO TEST WELL. BACK TO SWEET GAS. AFTER FLOWING 1-1/2 HR'S. RETURN TO WORK. SL FINISH POH. RDMOSL. WORK TBG 20K TO 100K W/NO GAIN. SWI. SDFN.
10/28/2016	7:00 - 7:15	0.25	MAINT	48	B	P		HELD JSA W/RIG CREW.
	7:15 - 8:30	1.25	MAINT	46	E	Z		SITP 1300 PSIG. CP 1300 PSIG. BLEW WELL DOWN. PUMP 30 BBLS TMAX DOWN TBG. NALCO TO BE ON LOC @ 07:00 NEVER SHOWED UP BY 8:30.
	8:30 - 12:30	4.00	MAINT	35	F	P		MIRU DELSCO BRADED LINE TRUCK. RIH SET TBG STOP @ 8783'. POH. RIH W/PLUG UNABLE TO DOWN PAST 4304'. POH PLUG HAD SCALE ON IT. FLUSH TBG W/40 BBLS FTW. REDRESS PLUG RIH SET PLUG @ 8783'. POH RDWL.
	12:30 - 14:00	1.50	MAINT	37	A	P		MIRU CUTTERS WL. RIH W/1-9/16" OD PERF GUN TO 8742' PRESSURE TO 2000 PSIG. PERF TBG PRESSURE WENT TO 0 PSIG. PULL UP TO 8730' PERF TBG 4 HOLES. POH W/WL.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-33OT		Spud Conductor: 1/19/2011		Spud date: 2/8/2011	
Project: UTAH-UINTAH		Site: NBU 922-33OT			Rig name no.: MILES 2/2
Event: WELL WORK EXPENSE		Start date: 10/27/2016		End date: 11/1/2016	
Active datum: RKB @5,124.00usft (above Mean Sea Level)			UWI: SW/SE/0/9/S/22/E/33/0/0/26/PM/S/692/E/0/1465/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation	
	14:00 - 15:00	1.00	MAINT	31	B	P		WORK TBG FREE. POH TO EOT @ 8600'. STANDING TBG IN DERRICK. STOPED PULLING OVER @ 8950'.	
	15:00 - 15:00	0.00	MAINT	40	D	P		MIRU NALCO. PUMP 15 GAL H2S SCAVENGER DOWN TBG. FLUSH W/33 BBLS TMAX. PUMP 20 GALS DOWN ANNULAS FLUSH W/70 BBLS. SWI. SDFN.	
10/31/2016	7:00 - 7:15	0.25	MAINT	48	B	P		HELD JSA W/RIG CREW.	
	7:15 - 12:30	5.25	MAINT	31	Q	P		SITP 1300 PSIG. CP 1300 PSIG. BLOW ANNULAS DOWN. PUMP 30 BBLS TMAX DOWN TBG. MIRU SCAN TECH. POH LD & INSPECTING 301 JTS 2 3/8" L-80 TBG. REJECTED 199 JTS FOR WALL LOSS. 1 JT YB [NO DRIFT]. LITE TO HEAVY OD SCALE 8660' - 8880'. RECOVERED 2 TBG STOPS & 2 TBG PLUGS. STD VALVE IN XN HAD +- 20 LOOSE SCALE ON TOP. RDMO SCAN TECH.	
	12:30 - 16:30	4.00	MAINT	31	R	P		RIH W/3 7/8" MILL,PBSN 2 3/8" L-80-P110 TBG TAGGED @ 8871'. POH ABOVE PERFS @ 6870'.	
	16:30 - 17:00	0.50	MAINT	31	F	P		FLUSHED TBG W/30 BBLS TMAX. SWI. SDFN.	
11/1/2016	7:00 - 7:15	0.25	MAINT	48	B	P		HELD JSA W/RIG CREW.	
	7:15 - 8:00	0.75	MAINT	31	O	P		SITP 0 PSIG. [FLOAT] CP 1200 PSIG. OPEN CSG TO FBT RIH W/TBG TO 8860'. RU DRILLING EQUIPMENT. MIRU WEATHERFORD FOAM & N2 UNIT.	
	8:00 - 13:00	5.00	MAINT	31	H	P		BROKE CIRULATION. W/AIR FOAM. [1 HR-15 MIN]. C/O SCALE 8871' - 73', 8880' - 86', FELL THROUGH. RIH TAG @ 9928'. C/O FILL TO 9950'. CIRCULATED CLEAN. W/N2. RD DRILLING EQUIPMENT.	
	13:00 - 17:00	4.00	MAINT	31	I	P		PULL UP LAND TBG @ 9537'. ND BOP. NU TREE. PUMP OFF MILL & SUB. BROAH TBG 0' - SN W/1.910" BROACH. RDMOSU. BLOW WELL AROUND W/N2. ROAD RIG TO NBU 535-17E. SDFN.	
								TBG DETAIL	LENGTH
								KB=	18.00'
								TBH=	.83
								101 JTS 2 3/8" 4.7# L-80 YB=	3197.47'
								2 3/8" 4.7# P-110 PUP JT=	6.12'
								191 JTS 2 3/8" 4.7# P-110=	6312.98'
								PBSN=	2.20'
								LANDED @	9537.60'
								PUMPED 740 TTL BBLS WATER. RECOVERED 820 BBLS. 80 BBLS LTR.	
11/3/2016	7:00 - 10:00	3.00	PROD	42		P		SWABBING FL 5500, 4 RUNS, 14 BARRELS	
11/4/2016	7:00 - 17:00	10.00	PROD	42	B	P		FLUID LEVEL=3000	